

OHIO UNIVERSITY BULLETIN

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THE UNIVERSITY CALENDAR

1938 - 1939

1938

SUMMER SESSION

June 13, Mon.	Session opens—Registration
June 14, Tues.	Classes begin
June 18, Sat.	Last date for filing application for graduation in August
July 4, Mon.	Independence Day, a holiday
July 31, Sun.	Baccalaureate Sunday
Aug. 3, Wed.	Afternoon—Beginning of final examinations
Aug. 5, Fri.	Session closes—Commencement

POST SUMMER SESSION

Aug. 5, Fri.	Registration
Aug. 8, Mon.	Registration continues until noon. Session opens, classes begin at 1:00
Aug. 26, Fri.	Final examinations begin at 1:00
Aug. 27, Sat.	Session closes

FIRST SEMESTER

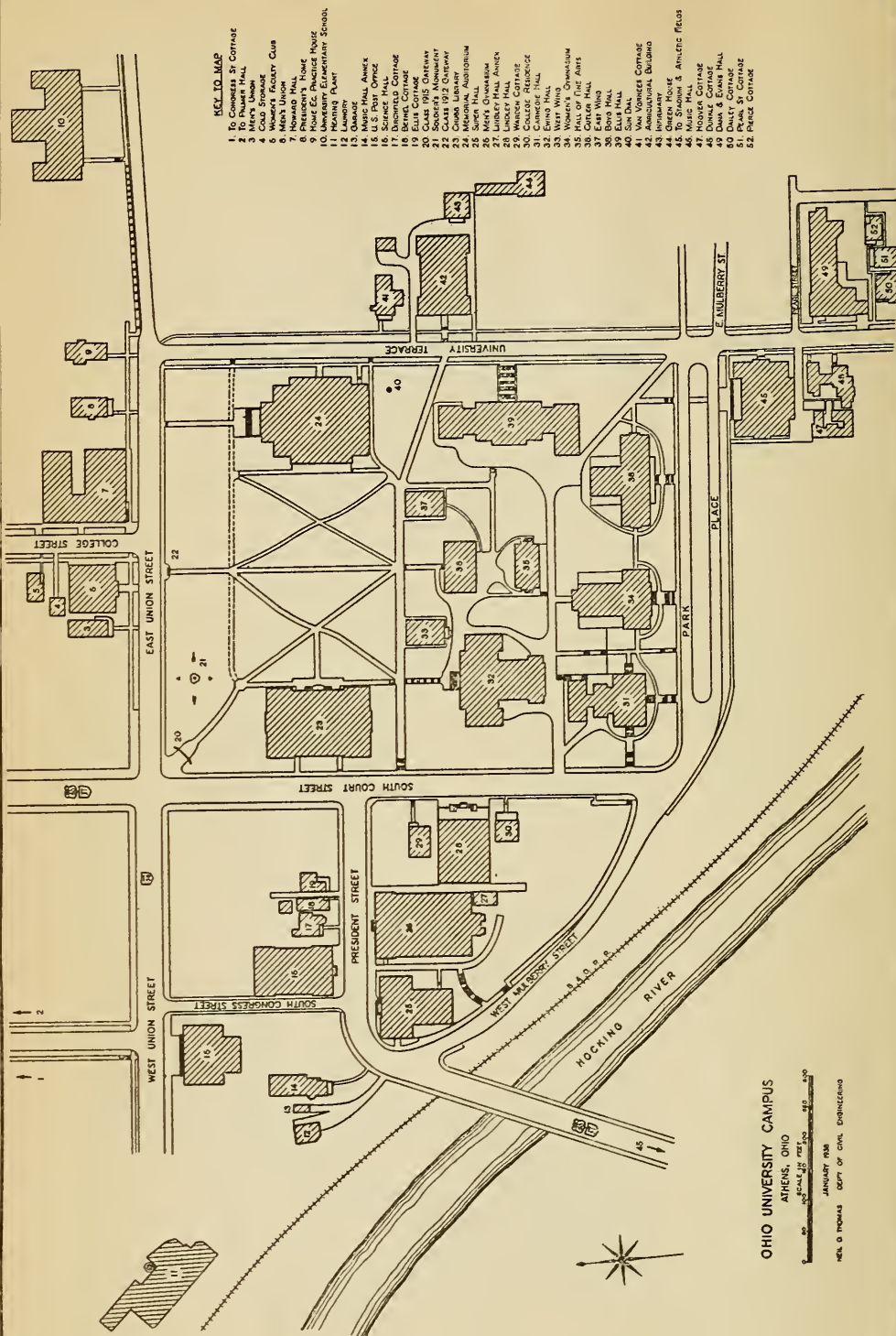
Sept. 12, Mon.	Session opens—Advising for upperclassmen
Sept. 13, Tues.	Registration for freshmen
Sept. 14, Wed.	Registration for upperclassmen
Sept. 15, Thurs.	Classes begin
Sept. 24, Sat.	Last date for filing application for graduation in January
Nov. 12, Sat.	Mid-semester
Nov. 22, Tues.	Thanksgiving recess begins after the close of the last class
Nov. 28, Mon.	Classes resume
Dec. 16, Fri.	Christmas recess begins after the close of the last class

1939

Jan. 2, Mon.	Classes resume
Jan. 23, Mon.	Beginning of final examinations
Jan. 28, Sat.	Session closes

SECOND SEMESTER

Jan. 30, Mon.	Session opens—Registration
Jan. 31, Tues.	Registration
Feb. 1, Wed.	Classes begin
Feb. 11, Sat.	Last date for filing application for graduation in June
Mar. 31, Fri.	Spring recess begins after the close of the last class
Apr. 1, Sat.	Mid-semester
Apr. 10, Mon.	Classes resume
May 26, Fri.	Beginning of final examinations
May 30, Tues.	Memorial Day, a holiday
June 4, Sun.	Baccalaureate Sunday
June 5, Mon.	Sessions closes—Commencement



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E. C. Eikenberry, Camden -----	Indefinite
Charles D. Hopkins, Athens -----	Indefinite
Arthur C. Johnson, Columbus -----	Indefinite
Thomas J. Davis, Cincinnati -----	Indefinite
Fred G. Leete, Ironton -----	1938
Fred Beckler, Athens -----	1939
Charles E. Holzer, Gallipolis -----	1940
Gordon K. Bush, Athens -----	1941
F. F. Young, Lowell -----	1942
J. O. McWilliams, Cleveland -----	1943
George G. Hunter, Ironton -----	1944
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1937-1938

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Lasher

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EUGEN HARTMUTH MUELLER, Ph.D., *Instructor in German*

BERTRAM A. RENKENBERGER, A.M., *Instructor in Spanish*

JOHN ELZA EDWARDS, A.M., *Instructor in Physics*

PHILIP LAWRENCE PETERSON, B.M.Ed., *Instructor in Voice and History of Music*

CARRIE ELIZABETH SPENCER, A.M., *Instructor in Physical Welfare*

JOSEPH EUGENE THACKREY, A.M., *Instructor in School Music*

KARL H. KRAUSKOPF, Ph.D., *Instructor in Advertising*

LAWRENCE POWELL EBLIN, Ph.D., *Instructor in Chemistry*

CARL TUSSING NESSLEY, Ed.M., *Instructor in Physical Welfare*

LAMAR JOSEPH OTIS, B.S. in B.A., C.P.A., *Part-time Instructor in Accounting*

MARY EUNICE SNYDER, A.M., *Instructor in Home Economics*

ALMA BROWN, A.M., *Instructor in Physical Welfare*

WILLIAM OLIVER MARTIN, Ph.D., *Instructor in Philosophy*

GERALD OSCAR DYKSTRA, LL.B., M.B.A., *Instructor in Business Law*

CARL DENBOW, Ph.D., *Instructor in Mathematics*

GRACE MACGREGOR MORLEY, A.M., *Instructor in School Music*

MARY ELIZABETH ELLIS, Mus.M., *Part-time Instructor in Violin*

EDITH ALICE PRENTICE, A.M., *Part-time Instructor in English*

JOHN PIKE EMERY, Ph.D., *Instructor in English*

LILA MARGARET MILLER, A.M., *Instructor in Secretarial Studies*

DONALD ROBERTS, Ph.D., *Instructor in English*

WILLIAM HARRY KIRCHNER, JR., A.M., *Instructor in English*

LUVERNE FREDERICK LAUSCHE, B.S., *Part-time Instructor in Steam Engineering*

PAUL GERHARDT KRAUSS, Ph.D., *Instructor in German*
 DANA PERRY KELLY, A.M., *Part-time Instructor in Journalism*
 FRANCIS PETTIT BUNDY, Ph.D., *Instructor in Physics*
 HERSCHIEL THOMAS GIER, Ph.D., *Instructor in Zoology*
 WALTER C. RICHARDSON, Ph.D., *Instructor in History*
 MARY ELIZABETH WHITNEY, A.M., *Instructor in Physical Welfare*
 MARY KATHERINE LEONARD, A.M., *Instructor in School Design*
 NORMAN RAY BUCHAN, LL.B., A.M., *Instructor in Journalism*
 JOSEPHINE VIRGINIA SNOOK, A.M., *Instructor in Secretarial Studies*
 BUFORD LINDSAY PICKENS, A.M., *Instructor in History of Space Arts*
 F. THEODORE PAIGE, A.M., *Instructor in Industrial Arts*
 PAUL MURRAY KENDALL, A.M., *Instructor in English*
 HELEN LOUISE MAASER, A.M., *Instructor in School Music*
 DONALD E. CHURCH, A.M., *Instructor in Statistics*
 JOHN BRADFIELD HARRISON, A.M., *Part-time Instructor in English*

MARY CLAIRE GUERRA, B.S. in Ed., *Associate in Secretarial Studies*
 GIFFORD SEYMOUR BLYTON, A.M., *Associate in the School of Dramatic Art*
 RAYMOND AUSTIN PAUL, B.S. in Ed., *Associate in School Design*

THOMAS MCKINLEY WOLFE, M.B.A., *Part-time Lecturer in Commerce*

*MARION OWEN WOODWARD, A.M., *Itinerant Supervising Critic in Home Economics*

*EDNA ENDLY WOLFE, M.S., *Itinerant Teacher Trainer in Home Economics*

C. H. CREED, M.D., *Director of Clinics in Abnormal Psychology*

LUTHER B. ANDREWS, Private, First-Class, Field Artillery, U.S.A., *Assistant Instructor in Military Science and Tactics*

CHARLES HENRY FAIR, Sergeant, Infantry, U.S.A., *Assistant Instructor in Military Science and Tactics*

GEORGE WALLACE, First Sergeant, Infantry, U.S.A., *Assistant Instructor in Military Science and Tactics*

JULIA LUELLA CABLE, A.M., *Assistant in Psychology*

CARL GEORGE FRISCHE, B.S. in Agr., *Part-time Assistant in School of Music*

JAMES BROWN GREENE, A.B., *Assistant in Zoology*

*On special appointment

BETTY KATHERINE HALL, A.B., *Assistant in Dramatic Art*

JOHN C. HOLLIDAY, B.S. in Ed., *Assistant in Zoology*

DARWIN KELLER PHELPS, B.S., *Assistant in Zoology*

WILLIAM CONLEY SMITH, B.S. in E.E., *Assistant in Electrical Engineering*

MARGARET MARTHA FLORY, A.B., *Fellow in Speech*

CHARLES CREW GIBBONS, B.S. in Ed., *Fellow in Psychology*

FRANCES RENICK HARLOW, A.B., *Fellow in Commerce*

HARRY DOUGLAS HUSKEY, B.S., *Fellow in Mathematics*

BENTON EMRICH JONES, A.B., *Fellow in English*

SARAH ELEANOR LONGBRAKE, A.B., *Fellow in Zoology*

CLARENCE WAYNE MATTHEWS, B.S. in Physics, *Fellow in Physics*

LESLIE HAYNES MILLER, B.S. in Ed., *Fellow in Mathematics*

IDA LEONA PALTROWITZ, B.S. in Ed., *Fellow in Sociology*

WILMA ELIZABETH REINHARDT, B.S. in Home Economics, *Fellow in Home Economics*

ERNEST LOUVANE THOMPSON, A.B., *Fellow in Chemistry*

MARJORIE JEAN WASON, B.S. in Biology, *Fellow in Zoology*

KENNETH WINETROUT, A.B., *Fellow in English*

THEORA HYACINTH RICKEY, B.S. in Ed., *Scholar in Music*

HAROLD LEONARD SAMUELS, A.B., *Scholar in Journalism*

BARBARA MENGES, A.B., *Graduate Student Dean*

IRENE ELIZABETH SMITH, B.S., *Graduate Student Dean*

MARY JANE STEVENSON, A.B., *Graduate Student Dean*

FLORENCE MARGUERITE THOMPSON, B.S., *Graduate Student Dean*

FRANCES JEAN McELHANEY, B.S. in Ed., *Graduate Student Dietitian*

MARTHA MILLICENT PAXTON, B.S. in Ed., *Graduate Student Dietitian*

LILLIAN CORINNE STOCKER, B.S. in Home Economics, *Graduate Student Dietitian*

TRAINING SCHOOLS

AZARIAH BOODY SIAS, Ph.D., *Director of Teacher Training*

UNIVERSITY ELEMENTARY SCHOOL

EINAR AUGUST HANSEN, Ph.D., *Director of University Elementary School*

MARIE ACOMB QUICK, A.M., *Supervising Critic, Kindergarten*

JANET PURSER WILSON, A.M., *Supervising Critic, Kindergarten*

MABEL BERYL OLSON, A.M., *Supervising Critic, First Grade*

HELEN MARIE EVANS, A.M., *Supervising Critic, Second Grade*

ADELAIDE ISABEL JOHNSON, A.M., *Supervising Critic, Third Grade*

MARGARET VIOLA NELSON, A.M., *Supervising Critic, Fourth Grade*

MARY WARD, A.M., *Supervising Critic, Fifth Grade*

ESTHER MAE DUNHAM, A.M., *Supervising Critic, Sixth Grade*

CLARA HOCKRIDGE DELAND, A.M., *Supervising Critic, Special Education*

CARL JOEL HOUSE, B.S. in Ed., *Supervising Critic, Physical Welfare*

MECHANICSBURG SCHOOL

ELWIN RUTHERFORD O'NEILL, A.M., *Principal, Supervising Critic, Eighth Grade*

EDNA E. FELT, A.M., *Supervising Critic, First Grade*

MARY V. FLANAGAN, A.M., *Supervising Critic, Second Grade*

MARGARET DUNCAN, A.M., *Supervising Critic, Fifth Grade*

AGNES LYDIA EISEN, A.M., *Supervising Critic, Sixth Grade*

THE PLAINS ELEMENTARY SCHOOL

HERMAN WILLIAM HUMPHREY, A.M., *Head of The Plains Schools*

ELVA MYRTLE COOPER, A.M., *Principal, Supervising Critic, Sixth Grade*

ANNIE GOCHNAUER, A.M., *Supervising Critic, First Grade*

VERA E. SPROUL, A.M., *Supervising Critic, Second Grade*

EBBA LOUISE WAHLSTROM, A.M., *Supervising Critic, Third Grade*

ALTA MAY COOPER, A.M., *Supervising Critic, Fourth Grade*

IRENE CONSTANCE ELLIOTT, A.M., *Supervising Critic, Fifth Grade*

THE PLAINS HIGH SCHOOL

HERMAN WILLIAM HUMPHREY, A.M., *Head of The Plains Schools*

ALLAN CREE, A.M., *Supervising Critic, Mathematics*

LAWRENCE VIVIAN CALVIN, A.M., *Supervising Critic, Industrial Arts and History*

ANNA BERYL CONE, A.M., *Supervising Critic, Home Economics*

VILAS OLEN KAIL, A.M., *Supervising Critic, Biological Sciences and History*

LOUISE JANE DIVER, A.M., *Supervising Critic, English*

EDGAR BERTHOLD RANOW, A.M., *Supervising Critic, Physical Welfare and History*

ADDA LENORE MACCOMBS, A.M., *Supervising Critic, Latin*

GENERAL INFORMATION

LOCATION

Ohio University is located in southeastern Ohio in Athens. Athens, a small city ideally situated in the hills overlooking the Hocking River, is seventy-six miles southeast of Columbus, Ohio, and is on state routes 31 and 56 and national route 50. It is easily accessible by rail on the Chesapeake and Ohio, New York Central, and Baltimore and Ohio railroads. Airport service is furnished by plane or taxi connection with the Columbus and Cincinnati, Ohio, airports.

HISTORY

Ohio University has its origin in the acts of the Congress of the United States and in those of the Ohio Legislature. On July 27, 1787, the Congress of the United States and the Ohio Company, represented by Manasseh Cutler, agreed upon the terms of a contract in which was a provision for two townships of land to be set aside by Congress for the support of a university. Through the untiring efforts of General Rufus Putnam, the townships were located and the site for the university was selected. The Territorial Legislature on January 9, 1802, passed an act providing for the American Western University in the town of Athens, Ohio, which was approved by Arthur St. Clair, the governor of the Northwest Territory. The Ohio State Legislature took control of the university and on February 18, 1804, changed the name of the university to Ohio University.

Through the efforts of General Putnam, the first building for classroom purposes was constructed in 1808. The Rev. Jacob Lindley, Presbyterian minister of Waterford, Ohio, became the first member of the faculty and administered the affairs of Ohio University until 1822. Thomas Ewing and John Hunter graduated in 1815 and were the first persons to receive collegiate degrees within the Northwest Territory.

The income derived from the lands given by the federal government proved to be inadequate and was gradually supplemented by legislative appropriations until at present practically all the financial support is derived from the State of Ohio. The first building erected for the university with funds appropriated entirely by the state was provided for in the legislative act of March 21, 1881.

BUILDINGS AND GROUNDS

The grounds of Ohio University consist of about seventy-two acres. At the entrance to the campus is the gateway erected in 1915 by the alumni in honor of the 100th anniversary of the first graduating class of the university. On the campus, which consists of about ten acres, are located eleven buildings. Manasseh Cutler Hall, formerly known as the Central Building, was erected in 1817 and is the oldest college edifice northwest of the Ohio River. The first floor contains the offices of the dean of the College of Arts and Sciences, the dean of the College of Education, and the dean of men; the second and third floors are used by the Department of Psychology. East Wing and West Wing, on either side of Cutler Hall, are nearly as old. In East Wing are the offices of the alumni secretary, the Service Bureau, and the Extension Division; the third floor is used by the Department of Philosophy. In West Wing

are the offices of the dean of women and the auditor of student funds, and the rooms for the Y. W. C. A. and Women's League. Ewing Hall, named in honor of Honorable Thomas Ewing of the class of 1815, contains classrooms for commerce, dramatic art, mathematics, and journalism; and the offices of the president, registrar, treasurer, the dean of the College of Commerce, and the director of the School of Journalism. The Memorial Auditorium, a building which cost \$350,000, was made possible by the contributions of alumni and friends of Ohio University and by an appropriation by the Ohio Legislature. It has a seating capacity of 2,800. The remaining buildings on the campus are: Fine Arts Building, the "Old Chapel"; Ellis Hall, the first building erected for the training of teachers in Ohio at the expense of the state; Women's Gymnasium; Carnegie Hall, used for the R. O. T. C. and the Bureau of Appointments; The Edwin Watts Chubb Library; and Boyd Hall, a dormitory accommodating eighty-six women.

The buildings surrounding the campus are: Agricultural and Household Arts, back of which are the greenhouse and the University Clinic; Music Hall; Lindley Hall, a dormitory accommodating one hundred and six women; Warden Cottage for women; Men's Faculty Club; Men's Union; Howard Hall, a dormitory accommodating one hundred and seventy women; the president's home; and the Home Economics Practice House and Nursery School.

The Men's Gymnasium; Super Hall for applied science; Music Hall Annex; Science Hall; the Birchfield Cottage and Bethel Cottage, cooperative houses for men and Ellis Cottage for women complete a unit of buildings between the campus and the athletic field.

The remaining buildings which are only a short distance from the campus are: Rufus Putnam Hall, the University Elementary Training School; Women's Faculty Club; Dana and Evans Hall, the new dormitory for men; Pearl Cottage, Dailey Cottage, Dunkle Cottage, Pierce Cottage, Hoover Cottage, and Palmer Hall, cooperative houses for men; and the central heating plant.

The athletic field, composed of about fifty acres, contains the stadium, tennis courts, caretaker's house, and baseball park.

MUSEUM

The museum, which contains more than 75,000 specimens, is located on the second floor of the Agricultural and Household Arts Building. The earliest recorded specimen, received in 1823, was a section of basalt from one of the pillars of the Giant's Causeway on the coast of Ireland.

The collection of rocks, minerals, and fossils number more than 30,000. There are sands, clays, and clay-products; Indian implements and utensils; stone and metal products of historic and economic interest; war materials and the fighting implements of various races; and lamps and lighting devices from the earliest ages. The plant collections include an herbarium of about 750 local species of plants, an extensive seed collection, woods, and various plant products. Among the animal exhibits are found sponges, jellyfishes, corals, various parasitic worms, starfish, and sea urchins; while the mollusca collection ranks among the best shown in American museums. There is also a collection of fishes, amphibians, reptiles, birds, and mammals.

Teachers are invited to make a wide use of the collections in their special fields of interest. Friday has been set aside as visiting day.

THE ASTRONOMICAL OBSERVATORY

The Astronomical Observatory is situated about a mile from the university on North Hill just outside the city limits. The building was erected in 1936-1937. The telescope, a reflector-type with a 20-inch aperture, is the gift of Professor A. H. Carpenter of Armour Institute of Technology, an alumnus of the university. The observatory is, in general, reserved for scientific work and for purposes of instruction.

BUREAU OF APPOINTMENTS

Ohio University maintains a Bureau of Appointments to assist graduates to find positions in the teaching field or in other fields such as engineering or business. The service is extended to those seeking initial placement and to those who seek advancement to more desirable positions. Registration with the bureau makes possible a complete collection of pertinent information which may be offered conveniently to persons interested in securing employees.

All students should register with the bureau early in the senior year; those completing the two-year diploma courses, in the second year. All records are kept up-to-date so that complete information may be available for immediate use.

THE EDWIN WATTS CHUBB LIBRARY

The Edwin Watts Chubb Library contains 110,105 volumes and receives about 450 periodicals annually. The comparatively new building has reading and seminar rooms with a seating capacity of 600. A seminar room and stack carols are set apart for the use of graduate students. The stacks, consisting of six floors, and periodical and reference rooms will accommodate 250,000 volumes. The library is a designated depository of United States documents which are classified and catalogued by the Dewey system.

During the past year, the library has been the recipient of several gifts: an original copy of *The Evolution of Counties in Ohio*, which shows the development and progress of the counties by a series of maps, presented by the author, William E. Peters; Reid's picture of the Canterbury Pilgrims, which hangs in the reserve room, sent from England by Dr. Edwin Watts Chubb; and the honorary membership certificate, beautifully engraved in Latin on vellum, presented by the Philomathean Society to Thomas Ewing in 1826, was given by his grand-daughter, Mrs. Marie Martin.

In the art gallery are hung exhibitions loaned by art museums, dealers, and artists. There is also a permanent collection of paintings owned by the university.

An unusual feature of the library is the juvenile room which is open to the children of the town and which cares for the needs of the public schools. This feature gives student teachers an opportunity to become familiar with a well chosen collection of children's literature and serves as a model for the equipment and administration of a children's library.

An elective course in library service for the teacher-librarian, Ed. 143-144, School Library Administration, has recently been introduced by the library staff.

FEES AND DEPOSITS

Fees are assessed at registration time and are payable at the treasurer's office on registration days. There is an additional fee for late registration or late payment of fees. The treasurer accepts cash, postal money orders, express money orders, and approved personal checks written for the exact amount of the obligation.

REGISTRATION FEES

Each Semester Session—

*Registration Fee—General, for legal residents of Ohio-----	\$40.00
**Registration Fee—General, for non-residents-----	65.00
Registration Fee—A.L.E. -----	5.00
Library Fee -----	1.00
Health Fee, for all students except music specials and Saturday and evening students -----	2.00
Registration Fee—General, for part-time resident students (less than 9 semester hours), for each semester hour-----	3.00
Registration Fee—General, for part-time non-resident students, for the first semester hour-----	5.00
for each additional semester hour-----	4.50

The Summer Session—

*Registration Fee—General, for legal residents of Ohio-----	20.00
**Registration Fee—General, for non-residents-----	32.50
Registration Fee—A.L.E. -----	2.50
Library Fee -----	1.00
Health Fee, for all students except graduate students taking work on a conference basis and music specials-----	1.00
Registration Fee—General, for part-time students (less than 5 semester hours), for each semester hour as stated above.	

The Post Summer Session—

*Registration Fee—General, for legal residents of Ohio, for each semester hour -----	5.00
**Registration Fee—General, for non-residents, for the first semes- ter hour -----	7.00
for each additional semester hour-----	6.50
Library Fee -----	1.00

*A person is entitled to register as a resident of Ohio who, at the time of his first enrollment in the university, has been a resident of the State of Ohio for twelve consecutive months next preceding the date of his original enrollment. No person shall be considered to have gained or lost a residence in the state for the purpose of registering in the university by any conduct of his own while he is a student in the university. A person whose legal residence follows that of other persons shall be considered to have gained or lost legal residence in this state for such purpose while a student in the university according to changes of legal residence of such other persons, except that such legal residence shall not be considered to be so gained until twelve months after such persons become legal residents of this state.

The residence of minors shall follow that of the legal guardian, regardless of emancipation; but in case a resident of Ohio is appointed guardian of a non-resident minor, the legal residence of such minor for the purpose of this rule shall not be considered to be established in the State of Ohio until the expiration of twelve months after such appointment.

**Students coming from states which do not have state universities similar in scope and standards to Ohio University pay a registration fee of \$95. These states are: Massachusetts and New York.

Auditors—

Registration Fee, in any session, for each semester hour-----	2.00
Library Fee -----	1.00

Music Fees, in addition to the above registration fees—

Percussion, String, and Wind Instruments, Organ, Piano, Voice for one lesson a week-----	15.00
Ensemble Conducting, for a major in the course-----	24.00
Harmony, private instruction -----	24.00
Music fees for the summer session are one half of the above.	

Correspondence Study—

Registration Fee, for each semester hour-----	6.00
Postage Fee, for each semester hour-----	.50

Extension Class—

Registration Fee, for each semester hour-----	5.00
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MISCELLANEOUS FEES

Bureau of Appointments, registration fee-----	1.00
Change Order -----	1.00
Class Reinstatement -----	1.00
College Ability Test, when not taken at the designated time-----	1.00
Examination for advanced standing, each examination-----	1.00
Graduation—	
Application for degree -----	5.00
Application for two-year teacher's diploma-----	2.50
Re-application -----	1.00
Penalty for late application -----	1.00
Excuse from commencement -----	5.00
Infirmary, hospital service for each day-----	2.00
Late Registration or late payment of fees-----	1.00
Each additional day late -----	1.00
Auditors, graduate students taking work on a conference basis, music specials, and Saturday and evening students, for each week late -----	1.00
Maximum penalty for a semester-----	5.00
Maximum penalty for the summer session-----	5.00
Practice Room for Music—	
Percussion, String, and Wind Instruments, Piano, Voice, for each semester hour-----	2.00
Organ, for each semester hour-----	7.00
Record Book (after the first book)-----	1.00
R. O. T. C. Freshman Personal Equipment (for the year)-----	6.00
Transcript of record (after the first transcript)-----	1.00
Transfer from one bachelor's degree granting college to another-----	2.00

LABORATORY FEES

Laboratory fees are assessed at the rate of one dollar for one semester hour of credit. Laboratory fees are indicated in the description of the course. See Courses of Instruction. These fees are assessed and must be paid at registration time.

Laboratory fees for the summer sessions are the same as for a semester.

BREAKAGE FEES

A breakage deposit of \$3 each semester is required in Chem. 1, 2, 3, and 4. In all other laboratory courses in chemistry, a breakage deposit of \$5 is required. When the fee is paid, a deposit card is issued to the student. This card is deposited by the student with the Department of Chemistry and entitles the student to a desk properly supplied with apparatus. Any needed supplies are checked from the card and any unused portion of the fee is returned at the end of the year or upon official withdrawal from the course.

REFUND OF FEES

In case of a student's voluntary and official withdrawal from the university, a refund of a part of the fees is made according to the following schedule:

The Semester Session:

1. Within the first and second weeks, 90% refunded
2. Within the third and fourth weeks, 66% % refunded
3. Within the fifth and sixth weeks, 25% refunded
4. After six weeks, no refund

The Summer Session:

1. Within the first week, 75% refunded
2. After first week, from second to third weeks, inclusive,
50% refunded
3. After third week, no refund

The Post Summer Session:

1. Within the first week, 50% refunded
2. After first week, no refund

No refund, however, is made until a period of thirty days has elapsed subsequent to the official withdrawal of the student from the university. No refund is made to a student who is indebted to the university.

When a student withdraws from a laboratory course by change order, a refund of the laboratory fee is made immediately according to the above schedule.

EXPENSE ESTIMATE

The following is an estimate of expenses for a year, two semesters, at Ohio University:

	Lowest	Average
Registration, General Fee-----	\$ 80.00	\$ 80.00
Athletic, Lecture, and Entertainment Fee---	10.00	10.00
Health Fee -----	4.00	4.00
Library Fee -----	2.00	2.00
Laboratory Fees -----	2.00	8.00
Books and supplies -----	25.00	30.00
Board -----	140.00	175.00
Room -----	54.00	90.00
Total -----	<u>\$317.00</u>	<u>\$399.00</u>

Men board in the dormitory for \$175 a year and in cooperative houses for approximately \$105. Women board in the dormitories for \$157.50.

The summary does not take into consideration expenses for travel, clothing, laundry, or incidentals which are subject to the personal control of the individual.

The registration fee for students who are not residents of Ohio will be increased according to the non-resident fees given on page 24.

ROOMS AND BOARD

Men's Dormitory. A dormitory quadrangle which will accommodate three hundred and fifty men is under construction. The first two units, with facilities for eighty-eight men, are complete. The first floor of these units has an office, living quarters for the hostess and the manager, and twelve rooms for men. The second and third floors have rooms to accommodate sixty-four men. Each room accommodates two men. The dining room, kitchen, a large lounge, book room, check room, and a small reception room are on the ground floor.

The cost of rooms is \$2.50 a week per person and board is \$5 a week. All men rooming in the dormitory are required to eat in the dining room which has cafeteria service for breakfast and luncheon, and table service in the evening. Boarding accommodations are available for fifty men in addition to those rooming in the dormitory. Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bedding. The university provides for the laundering of the bedding. Window draperies and additional furnishings may be supplied by the student. Both room and board may be paid at the office of the treasurer of the university in advance during the first week of the semester or may be paid in advance installments of two five week and two four week periods.

Application for a room should be made at the office of the dean of men. A \$5 retaining fee, payable to Men's Dormitory, Ohio University, must accompany the application. If the contract is not fulfilled and the office of the dean of men is notified one week before school begins, the fee is refunded. If the contract is fulfilled, the retaining fee is used to carry on the social program consisting of dances, teas, receptions, and smokers, and to purchase periodicals for the book room. If at the end of the first semester, or any

time during the first semester, the student withdraws from the dormitory, one half of the social fee is refunded. Students entering for the second semester pay only one half of the fee.

Men's Cooperative Houses. There are four cooperative housing units owned and operated by the university. These units house one hundred and sixty-seven men and have dining room facilities for approximately three hundred and twenty-five. Since more men can be accommodated for board than for room, it is necessary for a number of the men living under the co-operative plan to live outside of the units.

The cost of rooms in the cooperative units is \$1.50 a week for each person in a double room. Room rent and board assessments are payable at the office of the treasurer of the university. Room rent is payable in advance in two five week and two four week periods. Board is payable each week. The cost of board for the 1936-1937 school year averaged \$2.60 a week. The cost varies depending upon prevailing food prices. The low rates are made possible because the men participating in the cooperative plan take turns waiting on table and washing dishes. A matron and a student manager are in charge of each unit. All units are under the direct supervision of the dean of men.

Each student assigned to a cooperative unit is required to pay a \$10 board deposit and a \$6 room deposit. Students who board with the cooperative units and secure rooms in private homes are not required to pay the room deposit. The deposits may be used to apply on the assessments for the last period in which the student is a member of a cooperative unit.

The cooperative units are open only to those men who find it necessary to live on decidedly reduced incomes. Admission is based upon need and scholarship. Applications are made at the office of the dean of men, Cutler Hall.

Rooms for Men. Rooms in private homes which have been inspected and approved are listed in the office of the dean of men, Cutler Hall. Men students are required to live in homes that have been approved. The price of the majority of double rooms varies between \$2 and \$2.50 a week per person and single rooms between \$3 and \$4.

Men students renting rooms in private homes are expected to sign the "Householder's Agreement" and to remain in the home for one semester unless definite arrangements are made with the householder. The agreement requires a student to abide by the contract unless it is terminated by the mutual consent of both parties, by the withdrawal of the student from the university, by securing a satisfactory substitute, or by the request of the dean of men if in his judgment it is for the best interest of the student's health or scholarship. Copies of this agreement are secured at the office of the dean of men.

Rooms and Board for Women. The living accommodations of all women in the university are under the supervision of the dean of women and the secretary of housing. There are three dormitories, Boyd Hall, Howard Hall, and Lindley Hall which has two cottage annexes. Sixty per cent of the rooms in each are held for entering students and forty per cent for upper-class applicants (former students). Eight sorority houses are maintained for the

active members of the social sororities. A list of private homes, inspected and approved by the secretary of housing, is available in the office of the dean of women.

Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bedding. The university cares for the laundering of the bedding. Such articles as couch covers and window draperies are supplied by the students. Radios are permitted in the rooms upon the payment of \$3.50 for a year and \$1 for a summer session. Failure to pay the fee or to abide by the rules of a house council pertaining to radio hours carries the penalty of discontinuance of the privilege.

Each dormitory plans and develops a social program for those who live in the hall and those who come in for meals from private homes. The university administration has authorized that the retaining fee be used for a fund to carry on the social program of dances, teas, receptions, and dinner parties. Only a portion of the retaining fee is needed for the social program of the summer session. The balance is refunded at the end of the session minus any other charges against the student, such as lost keys and radio fee.

Double rooms in the dormitories rent for \$2.50 a week per student; single rooms for \$3.25. In addition to this rental fee, each dormitory resident is expected to give approximately one hour a week in telephone and desk service. In lieu of this, she may pay the house council its equivalent in money. The house council of each dormitory requires a \$1 key deposit fee from each student. This fee is refunded upon the return of the key when the room is vacated.

Dormitory and cottage residents are required to eat in the dormitory in which they are living. Freshman women who live in private homes are also required to eat in an assigned dormitory dining hall. Exemptions from this requirement are granted to residents of Athens or immediate vicinity, to students who commute, to students who work for room and board, and to a few whose parents request exemption on the justifiable grounds of financial saving. The dean of women personally passes upon all such requests and determines the validity of the grounds presented. The dining rooms in the three dormitories are under the management of a competent dietitian and graduate students enrolled in institutional management in the School of Home Economics. The cost of board is \$4.50 per week.

Board and room fees for the semester may be paid in advance during the first week of the semester or may be paid in two five and two four week periods. Room and board fees are paid at the office of the treasurer of the university.

New students should make application for room simultaneously with application for matriculation or as soon after as possible. Applications for rooms in a dormitory are considered only if accompanied by a \$5 retaining fee. If for good reason a student is unable to claim her reservation, the fee is refunded provided a request for refund is made not less than one week preceding the day of registration. The retaining fee is applied to the social fund of the dormitory. The application and retaining fee of \$5 made payable to the General Student Fund, Ohio University, should be mailed to the Dean of Women, West Wing.

EMPLOYMENT OPPORTUNITIES FOR STUDENTS

Every effort is made to secure employment for those students who are partially self-supporting, but it is impossible to find work for all students needing assistance. With this in mind, every student should survey carefully the costs involved in attending Ohio University and compare them with his available resources. No one should attempt part-time employment unless financial circumstances make it absolutely necessary. A student can more wisely devote his time to educational opportunities and also make it possible for a student whose needs are greater to attend the university. Those students who find it necessary to earn a part of their expenses while attending the university should make application for employment at the office of the dean of men or the dean of women. Students engaged in regular part-time employment who desire to carry more than 12 semester hours must obtain a permit from the dean of men or the dean of women.

LOAN FUNDS

ALUMNI LOAN FUND

The alumni and friends of Ohio University have contributed \$7,355 since 1908 for the purpose of furnishing loans to students pursuing a four-year course in the university. To receive a loan a student must have completed one half of his course. Five per cent interest is charged. Since the first loan was made in 1908, \$55,193 has been advanced to needy students. The fund is administered by a committee of which the dean of the College of Arts and Sciences is chairman.

ATHENS ROTARY CLUB LOAN FUND

The Rotary Club of Athens maintains a loan fund for students who have attended Ohio University at least one year. Students pay interest on the loans. Inquiries may be addressed to the Chairman of the Rotary Club Loan Fund Committee, Bank of Athens, Athens, Ohio.

THE WOMEN'S LEAGUE LOAN FUND

Since 1913 the Women's League of Ohio University has maintained a loan fund for women students. A sum not to exceed \$100 may be borrowed by a student who has spent at least one year on the campus. Collateral or payment guaranteed by a parent is required. Five per cent interest is charged. The dean of women acts as treasurer of the fund.

SCHOLARSHIPS

The university offers a limited number of scholarships for entering freshmen on the basis of rank in high school studies. Students in the upper five per cent of a graduating class are eligible to apply.

Scholarships are awarded in limited number to sophomores, juniors, and seniors who have proved themselves worthy of such recognition through excellence in scholarship and good citizenship. In some cases financial necessity is given special emphasis, but only those students who have made a scholastic average of 2.3 or above have the privilege of applying.

A scholarship consists of the remission of the general registration fee of \$40 a semester.

See Graduate College for scholarships and fellowships offered for graduate students.

COLUMBIA DOWNING SCHOLARSHIP

Mrs. Madeline Downing Knight, South Jacksonville, Florida, has established a scholarship fund of \$10,000 as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income of the fund, \$600, is awarded annually under the following conditions:

1. The scholarship is to be known as the Columbia Downing Scholarship.
2. The scholarship is to be awarded to a needy boy who is a citizen of Ohio, preferably a native.
3. The scholarship is to be awarded to a member of the sophomore class on the basis of mental and physical health, demonstrated intelligence in his work as a freshman, acceptable character and conduct, and a satisfactory grade of scholarship as a freshman.
4. Preference is given to students who have done effective work in extra-curricular activities such as debate, music, oratory, or athletics.
5. The scholarship may be renewed in the junior and senior years, provided the need continues and the standards as set forth in item 3 are maintained.
6. The selection is not to be based entirely upon proficiency in any subject, but rather on the promise of development in strength of character and on the qualities of useful citizenship.

RHODES SCHOLARSHIPS

Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in collegiate activities. Information may be obtained from Dr. Victor Whitehouse.

PRIZES AND AWARDS

A. A. ATKINSON AWARDS

An award of \$10 as a first prize and \$5 as a second prize is given to the best senior students majoring in the Department of Electrical Engineering, and an award of \$10 to the best senior student majoring in the Department of Physics. Two committees, composed of the teaching staff of each department, select the candidates for the prizes and are governed by the following rules:

1. Scholarship in all courses for the sophomore, junior, and senior years.
2. Intellectual alertness and keenness of insight as determined by the instructors in the students' major and minor fields.
3. Originality, initiative, intellectual honesty, and personal industry.
4. Correctness and facility in the use of spoken and written English.
5. Character, personality, leadership, and other characteristics likely to promote success in the students' field.

If in any year either committee should decide there is no student who fulfills the conditions for the award, the amount will be placed in the principal fund.

ALLIANCE FRANCAISE PRIZE

The Alliance Francaise offers each year a prize of \$15 to the advanced student having the highest record in the Department of French. A student who has once won the prize is not eligible for consideration.

ALPHA DELTA PI SCHOLARSHIP PRIZE

The Xi chapter of Alpha Delta Pi offers each year a prize of a silver loving cup to the girl who has attained the highest scholastic average at the end of her sophomore year. Any sophomore girl is eligible to compete for the prize.

CHI OMEGA ECONOMICS PRIZE

The Tau Alpha chapter of Chi Omega, in accordance with the national policy of the fraternity begun in 1920, offers each year a prize of \$25 to the girl who does the highest grade of work in the Department of Economics. Any girl in the university is eligible to compete for the prize.

EMERSON POEM PRIZES

W. D. Emerson, of the class of 1833, bequeathed to the Board of Trustees of Ohio University the sum of \$1,000. The interest on this amount is awarded every second year to the students or graduates of Ohio University who write the best original poems. The award is divided into three prizes of \$60, \$40, and \$20. The judges are three persons, appointed by the president of the university and the chairman of the Department of English, who judge independently of each other.

The following regulations must be observed in every particular:

1. The competitors must be graduates of the university or students in attendance.
2. The poems must be in the hands of the president of the university before the opening of the second semester of 1938-1939.

3. Only one poem is to be submitted by each competitor.
 4. Each contestant shall submit three copies.
 5. The poem shall be typewritten on paper eight and one half by eleven inches, written only on one side, and marked with a pseudonym or character.
 6. The pseudonym or character accompanied by the name and address in a sealed envelope shall be sent to the president of the university. The envelopes will not be opened until the decision of the judges has been made.
- The winner of the first prize is not eligible for a second competition.

EVANS LATIN PRIZES

The Dafydd J. Evans Latin prizes consist of a first prize of \$25 and a second prize of \$12.50 each year. The awards are made on a competitive basis varying somewhat according to the will of the committee. For the present the ability to read Latin and the knowledge of Latin syntax will be stressed, but some attention will be given to Roman history, literature, and life. It is not expected that students will ordinarily compete for these prizes before entering upon the second semester of junior-senior Latin.

The committee consists of Professor Hill and the alumni secretary.

HORN SENIOR COMMERCE PRIZE

Mr. Clarence H. Horn of Athens, Ohio, conducted a senior course in "Accounting for Coal Production and Distribution" for the College of Commerce for a number of years before his death on November 26, 1927, and established a trust fund from the fees he received for this service. The income from the fund is paid annually to the senior who is graduated from the College of Commerce with the degree of Bachelor of Science in Commerce and who received the highest number of scholastic points in commerce subjects. The prize amounts to approximately \$24.

JOHN BAYARD THOMAS BIOLOGY PRIZE

The John Bayard Thomas prize in biology has been established by Dr. Josephus Tucker Ullom, '98, as a memorial to his nephew. The prize consists of \$50 to be awarded annually to the junior or senior pre-medical student who has done the highest grade of work in courses offered by the Department of Zoology. In making the award, consideration is given to the subjects covered and the quality of work performed. A student who has once won the prize is not again eligible for consideration.

The committee on awards consists of the head of the Department of Zoology and the dean of the College of Arts and Sciences.

MEN'S UNION SCHOLARSHIP PRIZES

The Men's Union awards each year two keys, one each semester, to the man having the highest scholastic standing. These are presented in the spring and are based upon the standings of the second semester of the year preceding and of the first semester of the year ensuing.

The Men's Union also offers a cup to both the social fraternity and the pledge chapter having the highest scholastic average for the first semester.

PI THETA KINDERGARTEN AWARD

The Beta chapter of Pi Theta each year presents a silver loving cup to the student in kindergarten-primary education who has attained the highest scholastic average at the end of her freshman year. The award is based also on personality and professional attitude.

SIGMA ALPHA IOTA MUSIC PRIZE

Sigma Alpha Iota gives a prize of \$25 to the sophomore woman enrolled for the degree of Bachelor of Fine Arts in Music who has attained the highest number of scholastic points.

SUPER GREEK PRIZES

In honor of Dr. Charles W. Super, for some time professor of Greek and a former president of Ohio University, his former students and friends established the Super Scholarship Prize Fund of \$2500. The income from this sum provides a first prize of \$100 and a second prize of \$50 to be awarded annually to members of the junior and senior classes.

The consideration in determining the awards are the extent and quality of the work done in courses in the Greek language and literature; in courses dealing with Greek civilization and culture, and with classical culture in general; and in courses in the language as a whole.

The committee in charge of the awards consists of the chairman of the Department of Classical Languages and the dean of the College of Arts and Sciences. The two may select a third member. Details may be secured from members of the committee.

TAU KAPPA ALPHA FORENSIC PRIZES

Each year the women's division of the Ohio University chapter of Tau Kappa Alpha conducts three contests: one in oratory, for the award of an oratory medal; one in oral interpretation of poetry, for a poetry medal; and one in declamation, a feature of Mother's Week-end, for the Voigt prize given by Irma E. Voigt, Dean of Women.

WOMAN'S MUSIC CLUB PRIZE

The Woman's Music Club of Athens gives an annual prize of \$25 to the senior music major in the College of Fine Arts who has attained the highest number of scholastic points and who has manifested superior excellence in music.

WOMEN'S LEAGUE SCHOLARSHIP AWARD

The Women's League awards a prize of \$10 for high scholarship to the woman student who has been in residence at Ohio University for a period of three semesters and who has the highest scholarship average for a period of two consecutive semesters, from February to February in the preceding and current years.

STUDENT ACTIVITIES AND ORGANIZATIONS

CAMPUS AFFAIRS COMMITTEE

The committee authorized by the administration to handle and conduct all extra-curricular student affairs is known as the Campus Affairs Committee. This committee consists of eleven members, six of whom are faculty members appointed by the president. The other five are student members. Three automatically become members of the committee by position: president of the Men's Union, president of the Women's League, and editor of the *Green and White*. The other two members are chosen by these nine and are known as members-at-large. This committee has under its jurisdiction the confirmation of the officials for the three college publications, the *Green and White*, the *Athena*, and the *Ohioan*, as recommended by the subcommittee on publications; the confirmation of the candidates for offices, chosen by the selection board, for the Men's Union, the Women's League, the Y. W. C. A., the W. A. A., and the senior, junior, and freshman classes; the allotment of all the Athletic, Lecture, and Entertainment fund not specified for athletics; and the regulation of all social affairs involving both men and women.

ALL-STUDENT ORGANIZATIONS

The Men's Union is the center of men's activities at Ohio University. Every regularly enrolled male student is entitled to the privileges of the Men's Union without additional cost.

The Men's Union provides meeting places for men's organizations and offices for student publications. The building includes a large recreation room; a reading room supplied with a wide variety of newspapers and magazines; a lounge with a radio, easy chairs, and writing facilities; and several rooms for meetings. At the present time, plans are being completed for the construction of a student lounge on the ground floor of the Men's Union Building where soft drinks and light refreshments can be secured.

The activities sponsored consist of a Freshman Mixer, dances, open houses, and a rodeo, and include assistance in the arrangements for Homecoming and Dad's Day activities. In conjunction with the Women's League, open houses are held throughout the school year.

Each semester the Men's Union awards a gold medal to the man with the highest scholastic standing.

The Women's League is the all-women's organization at Ohio University of which every regularly enrolled woman student is an active member.

The center of the Women's League's office and club room activities is West Wing. The third floor of this building includes one office and four club rooms supplied with magazines, books, and radio.

The activities sponsored consist of a Freshman Women's Party, dances, open houses, and Mother's Week-end. All of the activities of the Women's League are arranged definitely to serve the needs of the young women of the campus and vary from time to time as these needs vary.

Each year the Women's League awards a \$10 cash prize to the woman with the highest scholastic average extending over two semesters.

ATHLETICS

An extensive athletic program is carried on for both men and women for participation in recreational activities.

The intramural program offered to the students consists of the following activities: touch football, paddle tennis, badminton, basketball, handball, bowling, wrestling, boxing, tennis, horseshoe pitching, indoor track, track, volleyball, foul pitching, playground ball, archery, and ping pong. About eighty-five per cent of the men students of the university take advantage of the competition offered by this program.

Ohio University is a member of the Buckeye Intercollegiate Athletic Conference. The varsity sports consist of football, baseball, basketball, track, tennis, swimming, and wrestling.

DRAMATIC AND FORENSIC ORGANIZATIONS

The Ohio University Theatre. The Ohio University Theatre is a theatrical organization which serves both the university and the community. Production details of the presentation of the four or five plays are managed by the students enrolled in courses in the School of Dramatic Art. Casts are chosen at public tryouts.

The Fortnightly Playshop. The Fortnightly Playshop is an experimental theatrical producing group principally comprised of student directors, actors, and technicians, who are enrolled in courses in the School of Dramatic Art. However, roles in Playshop productions are open to all students of the university. Bills of one act plays are presented free of charge every two weeks.

Varsity Intercollegiate Debate. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Participation in a program of about fifteen debates is in preparation for a tournament which decides the state championship. The group also schedules about twenty debates before high schools in the various parts of the state.

Freshman Debate. Freshman Debate is sponsored for freshmen who may or may not wish to enroll in the regularly scheduled debate classes.

Oratory Contest. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

Interpretation Contest. Every year an average of four interpretation contests in poetry and prose are held for men and women. The State Interpretation Contest for women is held in connection with the State Oratorical Contest.

The Prep Follies. Under the direction of the Y. W. C. A., the pledges of the sororities participate in an annual original theatrical production.

The Dance Drama. The Dance Drama is an annual production of interpretative dancing which is sponsored by the Dance Club of the Department of Physical Welfare.

MUSIC ORGANIZATIONS

Membership in any music organization is based on competitive trials.

Music permits are issued for those who are successful and must be presented when the student is registering for credit.

The University Choir. The personnel of the University Choir is chosen from among the best voices on the campus. The repertoire is selected from choral literature both accompanied and a cappella. Tours are made in the spring.

The University Men's Glee Club. Among the traditional activities of the club is the annual serenade given during the Mother's Week-end, a spring homecoming. Tours and radio broadcasts are scheduled regularly.

The Varsity Male Quartet. The quartet is chosen from the membership of the University Men's Glee Club. Extensive opportunities for public appearances are given by demands from high school assemblies, service clubs, and churches.

The University Women's Glee Club. The club is well known for the quality of its work and its activities on the campus. It gives several programs on the campus and occasional trips are taken in the spring.

The University Band. The band of one hundred members has earned a reputation for its effective work in concert and at football games. The positions of drum-major and student leader are on a competitive basis.

The University Orchestra. At present the orchestra has a membership of fifty-five, and because of talent and training many of its members play an important part in the state intercollegiate orchestral contests. The orchestra is used by the university on formal occasions, such as commencement.

The Campus Orchestra. This orchestra is made up largely of students interested in direction and ensemble work and is under the direction of an instructor in school music.

PUBLICATIONS

The *Green and White* is the semiweekly university newspaper which is delivered to every student. The *Athena* is the college yearbook which is issued in May. The *Ohioan* is a monthly magazine reflecting college life.

RELIGIOUS ORGANIZATIONS

The Y. W. C. A. is the campus religious organization for women. The association is directed by students under the supervision of the dean of women. Its program includes social service activities in the Children's Home, the County Infirmary, the Hospital for the Insane, the Sheltering Arms Hospital, the mining centers around Athens County, and for shut-ins and the colored children in Athens.

The religious welfare and interests of all students are fostered by the various organizations sponsored by the churches of Athens. The Methodist Church sponsors the Wesley Foundation with its divisions of Phi Tau Theta, national organization for men, and Kappa Phi, national organization for women; the Presbyterian Church sponsors the Westminster Fellowship with the two other organizations, Pi Chi Epsilon for men and Trapezoid for women; the Christian Church sponsors the Bethany Council with the national organization for women, Kappa Beta, and the local Phi Sigma

Upsilon for men; the Baptist Club is sponsored for the students by a group of faculty members; and the Episcopal Church sponsors the Episcopal Club.

HONOR SOCIETIES

Phi Beta Kappa, established at Ohio University in 1929, is a society for the recognition of high scholastic attainment particularly for men and women primarily enrolled in the College of Arts and Sciences.

Kappa Delta Pi, established at Ohio University in 1923, is a society for the recognition of high scholarship attainment particularly for men and women primarily enrolled in the College of Education whose chosen profession is in the field of education.

Phi Eta Sigma, established at Ohio University in 1936, is a society for the recognition of high scholastic attainment for freshman men.

HONORARY ORGANIZATIONS

Torch*, established at Ohio University in 1913, is an organization primarily for senior men who have attained recognition in activities.

Cresset*, established at Ohio University in 1913, is an organization primarily for senior women who have attained recognition in scholarship and activities.

Phoenix*, established at Ohio University in 1930, is an honorary organization for junior women who have attained recognition in campus activities.

"J" Club*, established at Ohio University in 1930, is an honorary organization for junior men.

Blue Key, established at Ohio University in 1927, is an honorary organization for fraternity men. The membership is limited to two from each fraternity.

HONORARY AND PROFESSIONAL FRATERNITIES AND ORGANIZATIONS

Botany—Kappa Alpha Beta*	Journalism—
Classical Languages—Eta Sigma Phi	Kappa Tau Alpha
Dramatic Art—	Sigma Delta Chi (Men)
Choregi (Dramatics)	Sigma Rho* (Women)
Tau Kappa Alpha (Speech)	Music—
Education—	Kappa Kappa Psi (Bandsmen)
Lambda Tau Sigma (Special Education)	Phi Mu Alpha (Men)
Pi Theta (Kindergarten-Primary)	Sigma Alpha Iota (Women)
Engineering—	Painting and Allied Arts—Delta Phi Delta
American Institute of Electrical Engineers	Physical Welfare—Delta Pi Alpha* (Men)
Pi Epsilon Mu*	Pre-medical—Kappa Iota Alpha*
The O. U. Engineers	Psychology—Psi Chi
Home Economics—Phi Upsilon Omicron	Sociology—Alpha Kappa Delta
Industrial Arts—Epsilon Pi Tau	

*Local

SOCIAL FRATERNITIES AND SOCIAL SORORITIES

Men

Beta Theta Pi—Beta Kappa Chapter,
1841
Delta Tau Delta—Beta Chapter, 1862
Phi Delta Theta—Ohio Gamma Chap-
ter, 1868
Sigma Pi—Epsilon Chapter, 1910
Phi Kappa Tau—Beta Chapter, 1917
Theta Chi—Alpha Tau Chapter, 1925
Tau Kappa Epsilon—Alpha Beta
Chapter, 1927
Phi Kappa—Psi Chapter, 1929
Pi Kappa Alpha—Gamma Omicron
Chapter, 1929
Alpha Phi Delta—Beta Zeta Chapter,
1933
Phi Epsilon Pi—Alpha Rho Chapter,
1933

Women

Pi Beta Phi—Ohio Alpha Chapter,
1889
Alpha Gamma Delta—Zeta Chapter,
1908
Alpha Xi Delta—Pi Chapter, 1911
Chi Omega—Tau Alpha Chapter, 1913
Alpha Delta Pi—Xi Chapter, 1914
Zeta Tau Alpha—Alpha Pi Chapter,
1922
Theta Upsilon—Kappa Chapter, 1925
Phi Mu—Delta Delta Chapter, 1927

DEPARTMENTAL CLUBS

Chemistry—Chemistry Society
Classical Languages—Classical Club
Dramatics—Fortnightly Playshop
Education—Kindergarten-Primary
Club
Electrical Engineering—
Physics Club
English—
Book-Lovers Club (Men)
English Club
Poetry Society of America
Quill Club
French—Alliance Francaise
German—Der Deutsche Verein

Journalism—News Photography Club
Industrial Arts—Industrial Arts Club
(Men)
Philosophy—Philosophy Club
Physical Welfare—
Dance Club (Women)
Dolphin (Women)
Hygeia Club
Varsity "O" Association (Men)
Varsity "O" Association (Women)
Physics—
Radio Club
Spanish and History—Hispanic-Amer-
ican Club

GENERAL STUDENT ORGANIZATIONS

American Student Union
Interfraternity Council
Men's Union
W. A. A.

Women's League
Women's Pan-Hellenic Council
Y. W. C. A.

ADMISSION

All correspondence regarding admission of students to the university should be addressed to the Registrar, Ohio University, Athens, Ohio. An application blank and all credentials for admission should be presented to the registrar's office not later than one month preceding the opening of the semester or summer session. If it is impossible for a student to have his credentials forwarded at that time, he should attach the necessary explanations to his application for admission. Not even temporary admission is granted in the absence of proper credentials. All credentials of matriculated students are filed in the registrar's office and remain the permanent property of the university.

Students entering the university for the first time are required to comply with the smallpox vaccination regulation given on page 92.

Freshman Students. The university admits without examination all graduates of high schools in Ohio which are on the approved list of the Department of Education. A student who has completed fifteen acceptable units with high grades in an accredited high school may be admitted upon the recommendation of the high school principal. An out-of-state student is accepted if he can qualify for admission to the state university of his state. A resident of a state which does not support a state university of the same general scope and standard as Ohio University is admitted if he ranks in the upper two thirds of his graduating class.

Transfer Students. A student transferring from a college or university must present an official transcript of all high school and college credits, including a statement of honorable dismissal from the school last attended. A transfer student is admitted to the University College or to a degree granting college, depending upon whether he has completed the requirements of the University College, and is given rank according to the classification of students given on page 46.

A student transferring from an unaccredited college may obtain credit by examination. Permission to take examinations is granted by the registrar. Request for permission should be made at the time of application for admission and not later than one month after matriculation. The examinations must be taken during the first session of a student's attendance. A fee of \$1 is charged for each examination.

College Ability Test. A student entering Ohio University for the first time is required to take the college ability test. He is notified of the date, place, and hour of the test with his admission credentials. A student who fails to take the test at the appointed time or who applies for admission too late to take the test at the time scheduled is required to take the test at a later date and pay \$1 to cover the expenses incurred.

A student who transfers from an accredited college and presents a satisfactory statement concerning the test name, the score, and the percentile is excused from this requirement. A transfer student who fails to present a certified satisfactory record in time to be excused from the first scheduled test is required to take the test at a later date and pay \$1 if his test record when presented is not satisfactory. A transfer student who attends the university only during a summer session is excused from the requirement.

Graduates. Application for admission to the Graduate College is made

on a blank obtained from the registrar. The application accompanied by official transcripts of a student's college record and degree, except when a student has been graduated from Ohio University, must be sent to the registrar. Only graduates of accredited institutions are accepted for admission. Additional information concerning admission is given in the description of the Graduate College.

Specials. A student who has not graduated from high school and who is twenty-one years of age is admitted as a special student if he passes the college ability test. A special student may not become a candidate for a degree until deficiencies in high school subjects have been made up. For further information see the provision for elective study in the University College.

Auditors. A student who is a graduate of an accredited high school or who is not less than twenty-one years of age may enroll as an auditor. A written permission from the instructor of the class the student wishes to audit must be presented to the registrar's office. A fee of \$2 is charged for each semester hour of the subject. Registration must be made in the registrar's office on the regularly scheduled days.

REGISTRATION

Procedure. A student registers in the men's gymnasium at the time indicated on his permit to register. A student who has been accepted for admission receives his permit by mail with other admission material. A former student obtains a permit to register from the registrar's office by request, either in person or by mail. Details concerning the registration procedure are given in the schedule of recitations obtainable in the registrar's office.

Late Registration. For regular students a fee of \$1 is charged for late registration with the addition of \$1 for each day late. The maximum late registration fee is \$5. Special students who are enrolled as music specials, as auditors, in Evening and Saturday classes, or as graduate students taking work on a conference basis are charged a late registration fee of \$1 for each week late.

The penalty goes into effect immediately after the close of the registration period as given in the university calendar. Even though a student may receive permission to register after the regular registration period has closed, he is required to pay the penalty for late registration. Any student whose late registration is due to serious illness or to death in the immediate family may petition the Executive Committee for a refund of the late registration fee.

Student Load. A student's normal load is 15 or 16 semester hours. A student with a high scholastic average may enroll for more than the normal load with the permission of the dean of the college in which he is enrolled. The dean of the college may grant permission for an 18 semester hour load when the student has a 2.00 scholastic average and no failures, and for a 20 semester hour load when a student has carried 18 semester hours with a 2.50 scholastic average and no failures. An exception to this scholastic requirement is made for a student enrolled in the engineering

courses in the College of Applied Science. Other cases which do not come under these regulations are presented by written application to the Executive Committee.

A student who is employed is limited to a twelve semester hour load unless he has permission from the dean of men or dean of women.

Extra-hour and schedule-work permits must be presented during the registration process.

Music Permits. A special permit issued for music activities must be presented by a student to the deputy registrar or the adviser during the registration process before the deputy registrar or the adviser signs the student's schedule card. Music permits are granted by the School of Music to students who are successful in the tryouts given for the activities.

Change Orders. A student who finds it necessary to add or drop a course makes a written application in the office of the dean of the college in which he is enrolled. The change order issued by the dean is not in effect until it has been presented to and accepted by the registrar's office. A student who withdraws by change order within the time allowed for unqualified withdrawal will have the course he has dropped removed from his registration record.

If the application for the addition of a course is made three weeks after the opening of a semester or one week after the opening of the summer session, the application for change must be approved by the Executive Committee.

If the application for the withdrawal from a course is made six weeks after the opening of a semester, three weeks after the opening of the summer session, or one week after the opening of the post summer session, the change order will result in the recording of the grade WP or WF on the student's record. WP indicates that a student is passing at the time of withdrawal; WF, that a student is failing.

A fee of \$1 is charged for a change order.

Change of College. A student who desires to transfer from one degree granting college to another should make application for the transfer before or during the registration period. The application is made in the office of the dean of the college in which the student is enrolled. The change does not go into effect until the application, signed by the two deans concerned, is presented to the registrar for approval and the transfer fee, \$2, has been paid.

Change of Address. If a student changes his home or Athens address after registration, he is expected to notify the registrar in writing at once. Forms are available in the registrar's office. The student is held responsible for any university office communication sent to him at the last address given.

Withdrawal. A student may officially withdraw from the university upon the presentation to the registrar's office of a withdrawal order issued by the dean of the college in which the student is enrolled. An official withdrawal is not granted to a student who is financially indebted to the university. A schedule for the refund of fees is given under fees.

A statement of good standing or honorable dismissal is not made for a student who is on scholastic probation, who has been dropped from the university, or who is financially indebted to the university.

GENERAL REGULATIONS

Credit. Credit is expressed in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

Grading System. A, very high; B, high; C, average; D, passing; E, conditioned; F and Fx, failure; I, incomplete; W, withdrawn; WP, withdrawn passing; WF, withdrawn failing.

E and I Grades. The grade E is given to a student who is not doing passing work but who has the possibility of receiving credit in the course by additional work or by the continuation of a year course. The grade I is given for the work of a student who has a satisfactory record in the course but whose work is not complete. E and I grades must be made up within one month after the opening of the next session in which the student enrolls except when an E has been given in the first semester of a year course. After a student has made up the required work, any grade may be given. One week is allowed to the instructor for the reporting of the grade to the registrar's office. A student who is not enrolled in the university may make arrangements with the instructor of the course for the removal of an E or I grade.

F is failure. Credit for the course can be secured only by re-registration and repetition of the course with a passing grade. F is recorded for a course from which the student has not officially withdrawn by change order or withdrawal order.

F and Fx. F is recorded for a student who fails to attain the required scholastic standard, at least seventy per cent. Fx is given to a student who has had excess absences.

W. W is indicated by the instructor on the class card of a student who officially withdraws from a course or from the university during the first six weeks of a semester, the first three weeks of the summer session, or the first week of the post summer session. A course marked W is removed from the student's record.

WP and WF. These grades are recorded for withdrawals after the first six weeks of a semester, the first three weeks of the summer session, or the first week of the post summer session. WP indicates that the student is passing in the course at the time of withdrawal; WF, that the student is failing.

Point System. For each semester hour of credit with the grade of A, a student receives three points; B, two points; C, one point; D, no points; E and I, no points until the final grade is determined; F, Fx, and WF, no points. A student's semester average is determined by the number of points accumulated by the grades reported at the close of the semester. WP does not affect a student's scholastic average.

Reporting of Grades. Grades for all students are reported to the registrar's office at the end of each semester and summer session. No grades are recorded for auditors.

Grades are reported to a student soon after the close of the session, provided the student leaves a stamped self-addressed envelope at the registrar's office.

Grades for students enrolled in the University College are reported every

six weeks to the dean of men and the dean of women. The grades are available to the student through his counselor.

At midsemester, delinquent reports are mailed to students enrolled in the degree granting colleges.

Honor List. An honor list by classes is published soon after the beginning of each semester. This list includes those students who made a 2.50 average or better for the previous semester.

Probation. The scholastic probation of a student enrolled in a degree granting college is governed by the following regulations: A student who fails to make points equal to one half of the number of semester hours he has carried during a session is placed on probation and is limited to a 12, 13, or 14 semester hour load during the succeeding semester. A student resumes a normal load after he has carried the probation load with a C (1.0) average. If at any time he does not make a C average on the probation load or on the normal load and does make points equal to two thirds of the hours carried, he is continued on probation and required to carry a probation load.

While on probation a student is required to make points equal to two thirds of the number of hours for which he is enrolled. If he fails to make the required number of points, he is automatically dropped from the university. A re-instatement petition is not considered until a student has been out of the university for one semester.

A student is removed from probation when he has made a C (1.0) average for two consecutive sessions; one with the probation load and one with the normal load. A student who is placed on probation as the result of E and I grades is removed from probation if the final report of the grades gives a total of points equal to one half of the number of hours carried.

The dean of women and the dean of men administer the probation regulations governing the students enrolled in the University College.

Excess Absences. The regulations pertaining to absences of undergraduate students are as follows:

1. Attendance Record

- (1) The members of the faculty are responsible for keeping a record of attendance in each course and submitting a list of all absences to the dean of men and to the dean of women each week.

- (2) The dean of men and the dean of women record the number of absences reported for each student in each class weekly and indicate the number of such absences that have been excused.

2. Excuse for Absence

- (1) The student who has been absent from class for any of the reasons listed below presents an excuse to the dean of men or the dean of women.

Excuses are granted for absences due to illness, death in the family, or for trips in connection with participation in authorized educational and university activities, such as musical and athletic events, debates, etc. Excuses may be granted for other educational trips, appointments, meetings, and extra-curricular activities when approved by the dean of men and the dean of women.

- (2) In every case the student is required to present evidence of the

validity of his excuse to the dean of men or the dean of women not later than one week after the first class meeting he attends after the absence has occurred.

3. Penalties for Unexcused Absences

(1) When the number of unexcused absences in any course exceeds the number of scheduled class meetings a week, the student and the instructor are notified by the dean of men or the dean of women. The student is allowed to petition for reinstatement up to the date indicated on the drop notice. If the petition has not been filed by that date, the student is automatically dropped from the course with a grade of Fx. The grade is recorded in the registrar's office.

(2) Each of a series of unexcused absences that occurs consecutively, immediately preceding or immediately following a regularly scheduled vacation period, counts double and is so recorded by the instructor in his weekly report to the dean of men or the dean of women.

(3) Whenever the student's total absences, excused or unexcused, are so numerous as to affect the quality of his work in a given course, the instructor informs the student and the dean of men or the dean of women. The student is automatically placed on probation in the course. During this class probation the student is not granted an unexcused absence without being automatically dropped from the course with the grade of Fx.

(4) A student who is dropped from classes by the registrar for non-payment of registration fees is marked absent by the dean of men or the dean of women until he is reinstated.

4. Reinstatement

(1) A student who has been dropped from a course in accordance with rule 3 may be reinstated as follows:

- a. The student obtains a statement from his instructor certifying that he has a passing grade in the course.
- b. The student presents this statement with the petition for reinstatement to the dean of men or the dean of women.
- c. If the petition for reinstatement is granted, the student obtains a reinstatement permit from the office of the dean of men or the dean of women. The permit is presented at the office of the registrar for the assessment of the reinstatement fee which is \$1 for each course for which a permit is issued. The permit is validated by the treasurer of the university when the fee is paid.

(2) An absence that occurs during the period of reinstatement is treated like any other absence. The fact that the student is engaged in being reinstated in the course is not approved as an excuse for absence.

5. Absences and Standing in the Class

(1) The student's final grade is determined without regard to the number of absences recorded for him unless he has missed an examination or failed to complete required work because of unexcused absence.

(2) Examinations and required work missed may be made up as

directed by the instructor upon presentation of a proper form from the office of the dean of men or the dean of women certifying that the student's absence has been excused. In so far as it is possible, the instructor directs the student in his efforts to make up the work missed.

(3) The student alone is responsible for whatever has been missed because of an unexcused absence.

6. Exemption from Regulations

(1) A student who has completed at least two semesters, or the equivalent, of university work and whose scholastic average for the preceding semester or regular summer session is 2.0 or above is excused from the regulations pertaining to absences of undergraduate students.

Classification of Students. A high school graduate or a transfer freshman who has met entrance requirements is admitted to freshman rank in the University College. A student who has fulfilled the requirements of the University College, which include the completion of at least 25 semester hours, is ranked as a sophomore in a degree granting college; as a junior, when he has completed at least 55 semester hours; and as a senior when he has completed at least 87 semester hours. A student who has not fulfilled the requirements of the University College will remain enrolled and will have rank in the University College according to the number of hours he has completed, as explained above. When he is transferred to a degree granting college, he will have the rank determined by the number of hours completed.

A student over twenty-one years of age who has not met the entrance requirements is ranked as a special student in the college governing the majority of the courses for which he is enrolled.

A student who has received a degree and returns for undergraduate credit is enrolled as a special student in the college governing the majority of the courses for which he is enrolled.

A student who has been admitted to the Graduate College is enrolled as a graduate student. A graduate student is enrolled as a graduate-special if he is not working toward a master's degree at Ohio University.

Final Examinations. Final examinations are held during the last week of a session according to a posted schedule.

All students are required to take the final examinations except those candidates for graduation who are excused in their last session of residence from final examinations in those courses in which they have attained at least a C grade.

Transcripts. A transcript of record is an official copy of a student's record which is issued by the registrar's office upon request. Each student is entitled to one transcript free of charge. One dollar is charged for each additional transcript. A student is entitled to a complete transcript without charge after graduation with a degree even though he has had one or more transcripts before graduation.

A student who wishes to transfer to another college or university should request the registrar's office to send an official transcript to the school.

GRADUATION

Application. A candidate for a degree or a diploma must file his application for graduation in the registrar's office not later than the dates given in the university calendar. The diploma fee for a degree is \$5; for a two-year diploma, \$2.50. The application for graduation is accepted by the registrar's office when the application card is accompanied by the receipted fee card. The penalty for application after the time assigned is \$1. The payment of the diploma fee after the stated dates constitutes late application and the penalty is assessed. If an applicant fails to meet the requirements for graduation, he is required to re-apply and pay a re-application fee of \$1.

Commencements. Degrees and diplomas are granted at the end of each semester and summer session. Attendance at commencement is required. Commencement exercises, which include the granting of diplomas and the conferring of degrees, are held in June at the close of the second semester and in August at the close of the first summer session. Diplomas are mailed to the students at the close of the first semester and the post summer session.

A student may be excused from commencement exercises by the permission of the president of the university and the dean of the college and will be assessed a fee of \$5. Application for permission is made in the office of the dean of the college in which the student is enrolled.

In Absentia. A student who has been given permission to complete the requirements for a degree or a diploma in absentia is expected to comply with the curriculum requirements and with all the graduation regulations with the exception of attendance at the commencement exercises. Students graduating in absentia are designated on the commencement program.

Honors. A candidate for the bachelor's degree who graduates with high scholastic average is distinguished on the commencement program by the notation "With highest honor" or "With high honor." A student who makes a scholastic average of 2.50 or above graduates "With highest honor." A student who makes a scholastic average of 2.00 or above, and below 2.50, graduates "With high honor." A transfer student is similarly distinguished if his entire record meets the requirements.

COLLEGES AND DIVISIONS

ORGANIZATION

Ohio University as founded and conducted during the early years of its existence was a college devoted to the arts and sciences. It remained a liberal arts college throughout the nineteenth century with only gradual expansion and few changes in policy. By the turn of the century, however, a growing need for teachers called for a professional educational program. In 1902, Ellis Hall was completed and the university was expanded to include a college for the training of teachers. Meanwhile, the general tendency for higher education in many fields had been definitely manifesting itself in increased enrollment and the demand for a broader curriculum. This was particularly noticed in the fields of electrical engineering and commerce which had been introduced in the College of Arts as early as 1890 and 1893 without perceptible effect upon the organization of the university.

In the years of constant growth that followed, the university at all times endeavored to keep pace with the growing need, until it became evident that the traditional division into a College of Liberal Arts and a College of Education was no longer representative of the broader curricula which had come to be offered in the university. In the autumn of 1935 the University College was established as an aid to freshmen in making the difficult adjustment from high school to college. Further reorganization has followed in accord with the enlarged offerings until at present the university comprises the following:

THE UNIVERSITY COLLEGE

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF EDUCATION

THE COLLEGE OF COMMERCE

THE COLLEGE OF APPLIED SCIENCE

THE COLLEGE OF FINE ARTS

THE GRADUATE COLLEGE

PHYSICAL WELFARE

MILITARY SCIENCE AND TACTICS

EXTENSION DIVISION

SUMMER SESSIONS

GENERAL DEGREE REQUIREMENTS

A variety of curricula are offered in the different colleges and divisions of the university. The requirements for a degree form a unified and connected curriculum made up of courses offered by the different colleges. The requirements as a whole are set up and administered by a college so that students are not only required to take courses in that college but are permitted and required to take courses administered by other colleges. No college excludes a student enrolled for a degree offered by another college from any course for which the student has met the necessary requirements.

Most of the curricula require a minimum of 124 semester hours and 124 scholastic points. A transfer student is required to meet the curriculum requirements for the degree, to be in residence at least thirty weeks, to complete at least thirty semester hours, and to acquire at least thirty scholastic points at Ohio University. In four years a student who has an adequate high school preparation completes the program of the University College, satisfies the requirement in physical training, four semester hours (men may substitute military science), and completes the specific requirements of the college in which he is a candidate for a degree.

A student first registers for a bachelor's degree when he enrolls in a degree granting college. This occurs after a student has completed the requirements of the University College, which usually is at the beginning of the sophomore year. When he has enrolled in a degree granting college and has registered for a bachelor's degree, he may secure that degree by fulfilling the requirements as outlined in the catalog of the year in which he first registered in the university. A student who does not complete the degree requirements within the usual three years spent in the degree granting college, may be allowed to fulfill the same requirements at a later date provided he completes them within seven years after his first enrollment in the university. A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements will be reduced by the number of years of transferred work.

Change of College. A student who has registered in one undergraduate degree granting college and who wishes to change to another college makes application for the transfer in the office of the dean of the college in which he is enrolled. The application form must be signed by the dean of the college in which the student is enrolled, by the dean of the college to which the student wishes to transfer, and by the registrar. The application is filed in the registrar's office and the change will be made on the student's record after the required fee, two dollars, has been paid. A student is required to fulfill all the requirements of the college and the degree to which he transfers.

Residence. The minimum residence requirement is two semesters or the equivalent in summer sessions, which should total not fewer than thirty weeks. The student must be in residence during the session in which the degree is granted with the exception of students who are granted permission to graduate in absentia. This permission is usually granted by the dean of the college. Saturday and evening class credit may be used to satisfy the residence requirement in combination with one semester or several summer sessions. The number of weeks of residence is determined by the number of

hours of credit. Credit earned in the Extension Division whether in extension classes or in correspondence study will not count toward the fulfillment of the residence requirement.

A Second Bachelor's Degree. A student who has received a degree and who desires a second bachelor's degree must complete the requirements of the second degree and at least thirty semester hours, thirty scholastic points, and one semester of residence.

Requirements for High School Provisional Certificate in Ohio. A student who is planning to teach in the secondary field and who has met the entrance requirements should register in the College of Education for the degree of Bachelor of Science in Education with specialization in his chosen field. The courses outlined by the College of Education include the requirements set up by the Department of Education of the State of Ohio. However, under the certification laws, a student enrolled in another degree granting college may meet the requirements for a teaching certificate by completing the minimum certificate requirements and the requirements for the degree. The student also needs to meet the prerequisites for the courses offered in the College of Education, especially the prerequisites specified for courses in observation and participation and in student teaching. Students who wish to teach in another state should consult the teaching certificate requirements of that state. The certificate granted by the Department of Education of Ohio qualifies the student to teach the majors and minors specified on the certificate in the secondary schools and in the upper grades if the work is departmentalized.

The minimum requirements in education are:

Subjects	Hours
Administration, Organization, Management-----	2 or 3
Educational Psychology -----	2 or 3
Methods (Special subjects require 2 to 4 hrs.)-----	2
Principles of Teaching-----	2 or 3
Student Teaching -----	3 to 5
Electives: Educational Sociology, History of Education, Introduction to Teaching, School Law, Tests and Measurements, any other educational course -----	2 or 3
Total -----	17 to 19

The minimum requirements for teaching majors and minors in academic subjects are:

Teaching Fields & High School Units	Teaching Major 18 Sem. Hrs.	Teaching Minor 12 Sem. Hrs.	Qualifies To Teach
English--3 units	Required 12 sem. hrs	Required 6 sem. hrs.	Comp. & Rhetoric
	Eng. Comp. -----6	Eng. Comp. -----3	American Lit.
	Eng. & Am. Poetry--3	Eng. or Am. Prose or Poetry -----3	English Lit.
	Eng. & Am. Prose----3		Classics
	Elective 6 sem. hrs. in literature, public speak- ing, any other English or in required subjects.	Elective 6 sem. hrs. same as major elective.	Lib. Sci. and speech, if included in major or minor.

Teaching Fields & High School Units	Teaching Major 18 Sem. Hrs.	Teaching Minor 12 Sem. Hrs.	Qualifies To Teach
Foreign Language 2 units	18 semester hours in one language in usual sequence.	12 semester hours in one language in usual sequence.	Subject in which prep- aration has been made.
History—2 units	Required 12 sem. hrs. World History -----3 Am. History -----3 Government or Pol. Science -----3 Modern Trends -----3 Elective 6 sem. hrs. in any other branch of secular history or in required subjects.	Required 6 sem. hrs. World History -----3 Am. History -----3 Elective 6 sem. hrs. same as major elective.	History Political Science Civics Government Social Civics
Mathematics— 2 units	Required 9 sem. hrs. Col. Alg. -----3 Col. Geom. -----3 Trig. -----3 Elective 9 sem. hrs. in any higher math., as- tronomy, com. arith., statistics, or in re- quired subjects.	Required 6 sem. hrs. Col. Alg. -----3 Col. Geom. -----3 Elective 6 sem. hrs. same as major elective.	Arithmetic Com. Arithmetic Algebra Geometry
Science Biological Science—1 unit	Required 9 sem. hrs. Zoology -----3 Botany -----3 or Gen. Biology -----6 Physiology, Hygiene or Agri. -----3 Elective 9 sem. hrs. in entomology, bacteriol- ogy, or in required sub- jects.	Required 6 sem. hrs. in zoology, botany, gen- eral biology or any combination of the three. Elective 6 sem. hrs. same as major elective.	Biology Zoology Botany Physiology Hygiene General Science Agriculture, if included in college work.
Earth Science—1 unit	Required 12 sem. hrs. Geology -----3 to 9 Geography -----3 to 9 Elective 6 sem. hrs. or in required subjects.	Required 6 sem. hrs. Geology -----3 Geography -----3 Elective 6 sem. hrs. same as major elective.	Geography Com. Geography General Science Geology
Physical Science—1 unit	Required 12 sem. hrs. Physics -----6 Chemistry -----6 Elective 6 sem. hrs. in physics, related sub- jects, physical science, or any branch of chem- istry or in required subjects.	Required 6 sem. hrs. Physics -----3 Chemistry -----3 Elective 6 sem. hrs. same as major elective.	Physics Chemistry General Science

Teaching Fields & High School Units	Teaching Major 18 Sem. Hrs.	Teaching Minor 12 Sem. Hrs.	Qualifies To Teach
Social Science— 1 unit of hist. or geog.	Required 9 sem. hrs.	Required 6 sem. hrs.	Economics
	Economics -----3	Economics -----3	Sociology
	Sociology -----3	Sociology -----3	Guidance
	Ethics, philosophy, log- ic; any one or any combination -----3		Civics, econ. geog., ind. geog., com. geog., if included in college work.
	Elective 9 sem. hrs. in		
	Econ. Geog.	Elective 6 sem. hrs.	
	Social Civics	same as major elective.	
	Indus. History		
	Commercial Geog.		
	Industrial Geog. or in required subjects.		

Notes: Methods courses in any of these subjects may be counted in computing majors and minors.

If the applicant has more than 16 units of high school credit, an excess of credit in any subject may be used toward a minor in that field at the rate of 3 semester hours per unit of such excess. Conversely, 3 semester hours of collegiate credit in any subject may be offered in lieu of each unit of the high school prerequisite in that subject.

The minimum requirements for a teaching major in a special field involve the completion of a college major of not less than 40 semester hours in the field; in music, 60 semester hours are required.

The minimum requirements for a teaching minor in a special field are as follows:

Commercial Subjects—Including bookkeeping (9 hours), stenography (6 hours), typing (3 hours), methods of teaching bookkeeping, stenography, and type-writing (2 hours) -----	20 sem. hrs.
Fine Arts—Freehand drawing (6 hours), painting (3 hours), design (3 hours), art appreciation (2 hours), methods of teaching art (3 hours)-----	17 sem. hrs.
Home Economics—Including foods, clothing, home making, and methods-----	18 sem. hrs.
Manual Arts—Including woodworking, metal working, general shop, and methods--	16 sem. hrs.
Music—Including sight singing, ear training and elementary theory (4 hours), history and appreciation (4 hours), special methods including observation in music (6 hours), ensemble (glee club, chorus, orchestra, band), and applied music (4 hours) -----	18 sem. hrs.
Physical Education—Including the principles, organization, and administration of health and physical education (4 hours), theory and practice of physical education including activities other than athletics such as games of low organization, stunts, apparatus, tumbling, swimming, elementary school activities, dancing, etc. (4 hours), theory and practice of physical education including athletic coaching in intramural and inter-scholastic athletics in (men) football, soccer, speedball, basketball, baseball, tennis, track, (women) soccer, volleyball, hockey, basketball, baseball, tennis, track (4 hours), health education including the teaching of health and school health problems (4 hours) -----	16 sem. hrs.

THE UNIVERSITY COLLEGE

The University College is organized primarily for students regularly matriculating as freshmen in Ohio University. It was established in 1935 with the view of helping the incoming student make his adjustments to college life rapidly and effectively. The college continues the general education of the student and offers effective preparation and guidance for the choice of the fields in which to specialize during the succeeding years of college life. The trend toward such an organization for freshmen is not new. An important feature at Ohio University is the provision for counselors whereby every student in the University College receives the personal advice and friendly counsel of a member of the faculty. This counseling program is of paramount importance to the successful achievement of the objectives of the University College.

There are two divisions of the University College, a men's division and a women's division. The men's division functions under the direction of the dean of men, assisted by an executive committee; the women's division functions under the direction of the dean of women and her staff.

The training received in high school and in the University College is regarded as a unit. The objective is to insure that in this five-year period every student shall attain a minimum foundation of substantial general education. The standard now established for the high school period of four years plus the University College year includes a minimum program as follows:

- Five years of English
- Three years of laboratory sciences
- Three years of social sciences
- Two years of mathematics
- Two years of foreign languages.

One year of college mathematics, one year of college foreign language, and one year of college laboratory science are regarded for this purpose as the equivalent of two years of high school work. However, a student who enters with only one year in a foreign language or one or two years in a laboratory science is required to complete one year of college work in the subject. A student who enters the university with less than four years of English may satisfy the five-year requirement by passing the year course in English Composition.

Registration in the University College takes place on the day preceding upperclass registration and is conducted by a special group of faculty members known as deputy registrars. Students who enroll in the three-year courses are registered by special deputy registrars. Students continue as members of the University College until all requirements are fulfilled. Should unfulfilled requirements make it necessary to remain in the University College after the first year, the student may pursue studies in the field of his choice without restriction except for the courses which meet the unfulfilled requirements. Students on scholastic probation remain in the University College until probation is removed. It is necessary for the student to complete one full year of University College work with at least half as many scholastic points as semester hours carried before he is admitted to an undergraduate degree college.

The normal and desirable freshman program includes courses in English, social sciences, laboratory sciences, foreign languages, and mathematics. When a student has completed the number of years required in all the fields except English, the program of studies for his freshman year will include courses selected from at least three of the five fields. A freshman registers for only one three-hour vocational or technical subject in a department, since the freshman year should be devoted to general training rather than to vocational pursuits. The foundation of general education laid during this year should enable the student to make a deliberate and wise choice as to his future course and to take his place naturally as a mature member of the university community. A student is able to complete his work for a degree in any one of the undergraduate degree colleges in three additional years.

Three-Year Diploma in Education. Freshmen who desire to enroll in the three-year diploma courses in education are registered in the University College under curricula determined by the College of Education.

Elective Study. There is also offered in the University College an opportunity for elective study for special students who expect to remain in college only one or two years, and who do not expect to complete curricula leading to degrees. This arrangement provides for such students an opportunity to choose subjects of study suited to their individual desires and needs. These students are required to take English Composition, Physical Welfare and College Problems. Men students may substitute military training for physical welfare.

Admission to the two years of elective study is based upon the requirements which govern admission to the University College, including the regular college ability test. Students under twenty-one years of age must also obtain permission for admission to elective study from parent or guardian and present a written statement of approval with their application.

Men and women who are twenty-one or more years of age and who have not completed fifteen units of high school work are admitted to elective study upon the recommendation of the respective dean of the University College in consultation with the instructor in the subject in which work is desired. Such persons are enrolled in regular classes, receive the same instruction, and are subject to the same standards as other students. Applicants for admission under this provision must present satisfactory evidence that they are at least twenty-one years of age. Students admitted to elective study may choose any subjects they wish, provided that they have satisfied the stated prerequisites.

At the beginning of any semester a student enrolled for elective study who has completed fifteen units of high school work may transfer to a course leading to a degree. When this is done, the student must choose subjects which meet the admission and course requirements of the degree sought, including those of the University College.

A student who has completed fifteen acceptable units of high school work and at least 64 semester hours of credit in elective study may continue his work at Ohio University, but is required to fulfill the University College requirements. A student would then be expected to work toward a degree.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims primarily to offer opportunities for what is commonly called a liberal education in contrast with professional or vocational training provided by the other colleges. It also affords opportunities for pursuit of most of the less strictly technical subjects which occupy the attention of students enrolled elsewhere in the university. It is in this way a service college for the whole of the university. Students from the other colleges are admitted to its courses on the same basis as are students registered in the College of Arts and Sciences.

As an undergraduate degree college with conscious emphasis on breadth of training, which is its primary aspect, the College of Arts and Sciences offers two degrees, the Bachelor of Arts and the Bachelor of Science. Both degrees are characterized by a considerable spread of interests. They not only permit specialization, but, indeed, require sufficient concentration in major and minor fields to insure some degree of mastery in a particular field. In general, the distinction between the curricula for the two degrees in the College of Arts and Sciences lies in the fact that for the Bachelor of Arts degree greater emphasis is placed upon the old and new humanities, such as English, foreign languages and literatures, and the social sciences; whereas, for the Bachelor of Science degree, the chief emphasis is placed upon the natural sciences and mathematics.

BACHELOR OF ARTS. The general requirements for the degree of Bachelor of Arts are: A minimum of 124 semester hours and 124 scholastic points. The total hours include the requirements of the University College, 4 semester hours of physical welfare or military science, and three years of work which comprise approximately 94 semester hours under the direction of the College of Arts and Sciences. Not fewer than 60 semester hours shall be in courses numbered 100 to 395 with at least 20 semester hours in courses numbered 200 to 395.

The specific requirements for the degree are: Hours

1. English: (See footnote) ----- 13-12

Eng. 1-4 or 3-4 English Composition

Eng. 101, 102 Sophomore English Literature

2. Foreign Language: (See footnote) ----- 6-20

(1) Students who enter with four or more years of one foreign language take a language for one year. Students who enter with two years in each of two languages may continue in either language for one year, except that those who have had French or Spanish may change to Italian, and those who have had Latin may change to Greek.

(2) Students who enter with three years in foreign language continue one language for one and one half years; if they wish to change to another language, they take two years.

Note. English Composition, the beginning or first year of a foreign language, Math. 1, 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.

(3) Students who enter with two years in foreign language take two years of a language. Students may change to a new language but must have at least two years in any one language, either in high school or in college, or in both.

(4) Students who enter with less than two years in foreign language take three years, with at least two years in one language.

3. Natural Science and Mathematics: 6 semester hours shall be in one subject ----- 12

Biological sciences: botany; *Psy. 109, 201, 207; zoology. Physical sciences: chemistry; *Geog. 1, 2, 125-126; physics.

Mathematics: except Math. 1, 3.

(1) Students who enter with one year in biological science and one year in physical science may fulfill the requirement in natural science, mathematics, or in a combination of them.

(2) Students who enter with one year in biological science shall include one year of physical laboratory science in the 12 semester hours.

(3) Students who enter with one year in chemistry or one year in physics, or both, shall include one year of biological laboratory science in the 12 semester hours.

(4) Students who enter with neither biological science nor physical science shall include one year of a laboratory science in the 12 semester hours.

4. Social Science: 6 semester hours shall be in one subject and 6 semester hours shall be in a course or in courses numbered 100 or above ----- 14

Commerce; economics; education; *geography and geology, except Geog. 1, 2, 125-126; government; history; philosophy; physical welfare (except the 4 semester hours in the general requirements); *psychology, except Psy. 109, 201, 207; sociology.

5. The Group and Subject Major: The major requirement includes 36 semester hours in a group with not fewer than 20 semester hours in a single field or subject unless otherwise indicated in the major requirements given in the Courses of Instruction. See footnote.
6. The Group and Subject Minor: The minor requirement includes 18 semester hours in another group with not fewer than 12 semester hours in a single field or subject. See footnote.

*A student may not elect to fulfill the natural science requirement and the social science requirement in the same subject or field.

Fields of Instruction. The fields of instruction (in some cases subjects only are included) are grouped as follows:

1. Language, Literature, Fine Arts, and Journalism Group:
Archaeology, English, French, German, Greek, Italian, Latin, and Spanish; dramatic art, music, painting and allied arts; journalism.
2. Natural Science and Related Science Group:
Biological sciences: botany, Psy. 109, 201, 207; zoology.
Physical sciences: chemistry; Geog. 1, 2, 125-126, 127, 201; Math. 112 (astronomy); physics.
Related sciences: agriculture, engineering, home economics, mathematics (not included above), industrial arts.
3. Social Science Group:
Commerce, economics, education, geography and geology (not included above), government, history, philosophy, physical welfare, psychology (not included above), sociology.

BACHELOR OF SCIENCE. The general requirements for the degree of Bachelor of Science are: A minimum of 124 semester hours and 124 scholastic points. The total hours include the requirements of the University College, 4 semester hours of physical welfare or military science, and three years of work which comprise approximately 94 semester hours under the direction of the College of Arts and Sciences. Not fewer than 60 semester hours shall be in courses numbered 100 to 395 with at least 20 semester hours in courses numbered 200 to 395. Not more than 50 semester hours in any department are counted toward the degree requirements.

The specific requirements for the degree are: Hours

1. English: (See footnote) ----- 10-9
Eng. 1-4 or 3-4 English Composition and 3 semester hours of literature.
2. Foreign Language: French or German preferred. (See footnote) ----- 0-16
Students who enter with four years in one foreign language or two years in each of two foreign languages are excused from this requirement.
3. Natural Science and Mathematics ----- 54
The requirement includes a major in one of the departments (botany, chemistry, mathematics, physics, zoology), and not fewer than 6 semester hours in each of two departments other than the major department. See Courses of Instruction for the major requirements.

Note. English Composition, the beginning or first year of a foreign language, Math. 1, 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.

4. Social Science: 6 semester hours shall be in one subject and 6 semester hours shall be in a course or courses numbered 100 or above ----- 14

Commerce; economics; education; geography and geology, except Geog. 1, 2, 125-126; government; history; philosophy; physical welfare (except the 4 semester hours in the general requirement); psychology, except Psy. 109, 201, 207; sociology.

Students Who Desire to Teach. A student who desires to receive the degree of Bachelor of Arts or Bachelor of Science can qualify for a certificate to teach in the secondary schools by completing the requirements for certification as given on page 50.

PRE-PROFESSIONAL CURRICULA

The Bachelor of Arts degree or the Bachelor of Science degree is granted to a student in the College of Arts and Sciences who has completed the requirements of the freshman, sophomore, and junior years (94 semester hours and 94 scholastic points), who enrolls in an accredited professional school of law, medicine, or dentistry, and who completes a full year's work with no failures and is advanced without condition to the second year.

Pre-law Students. Students preparing for the study of law are advised to secure a broad cultural education. If the student can decide early what law school he wishes to attend, he may plan to study the particular subjects recommended by that school.

Pre-medical Students. The curriculum for pre-medical students covers the minimum requirements for admission to a medical college. The minimum requirements are the completion of 60 semester hours of college work, which include: general inorganic chemistry, organic chemistry, physics, general biology or zoology, comparative anatomy, embryology, English, and a reading knowledge of either French or German, the latter preferred. Most medical colleges require additional courses in the sciences. It is rarely possible to complete the collegiate preparation in less than three years. Students are urged to complete, whenever possible, a four-year course leading to a degree. A student should possess a liberal culture such as is gained from a thorough acquaintance with English literature and from a knowledge of the social sciences and foreign languages. Some medical colleges require the Bachelor of Arts degree for admission.

Pre-medical Curriculum.

Freshman Year

The University College program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry -----	8	Zool. 3-4—General Zoology -----	6
Fr. or Ger. 1-2—Beginning -----	8		

Sophomore Year

Chem. 115, 119—Organic Chemistry -----	5	Zool. 112—Comparative Vertebrate	
Gr. 127—Greek Words in English -----	2	Anatomy -----	4
Zool. 107—Principles of Heredity -----	3	Electives* -----	18

*See requirements for the Bachelor of Arts degree or the Bachelor of Science degree.

Junior Year

Hours		Hours	
Chem. 109—Quantitative Analysis	4	Zool. 216—Animal Parasites	4
Physics 5, 6—Introduction to Physics	8	Electives*	12
Zool. 201—Vertebrate Embrology**	4		

Senior Year

Zool. 205—Principles of Physiology	4	Zool. 207—Mammalian Physiology	4
Zool. 211—General Bacteriology	4	Electives*	16
Zool. 202—Mammalian Anatomy***	4		

Pre-dental Curriculum.

Freshman Year

The University College program should include:

Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—General Zoology	6
Fr. or Ger. 1-2—Beginning	8		

Sophomore Year

Chem. 115, 119—Organic Chemistry	5	Zool. 112—Comparative Vertebrate	
Physics 5, 6—Introduction to Physics	8	Anatomy	4
		Electives*	15

Junior Year

Chem. 105—Qualitative Analysis	3	Zool. 207—Mammalian Physiology	4
Zool. 107—Principles of Heredity	3	Zool. 211—General Bacteriology	4
Zool. 205—Principles of Physiology	4	Electives*	14

Pre-nursing Curriculum. Students who wish to obtain a college degree and also become registered nurses can fulfill the requirements by completing a three-year curriculum at Ohio University and two years and four months of training at Grant Hospital School for Nurses, Columbus, Ohio.

Applicants must be fitted for nursing both in physique and in personality. A preliminary interview with the training school should be arranged in the freshman year through the chairman of the Department of Zoology. A physical examination is required sometime during May in the junior year.

Freshman Year

The University College program should include:

Chem. 1-2 or 3-4—General Chemistry	8	Psy. 1—General Psychology	3
French, Spanish, or German	6-8	Zool. 3-4—General Zoology	6

Algebra should be taken either in high school or in college.

Sophomore Year

Chem. 115, 119—Organic Chemistry	5	Soc. 101—Principles of Sociology	3
Eng. 101, 102—Sophomore Literature	6	Soc. 103—Social Problems	3
Phil. 103 or approved electives	3	Zool. 107—Principles of Heredity	3
Phil. 111—Business and Professional		Zool. 125—Elementary Physiology	4
Ethics	2		
Psy. 8—Intro. to Applied Psychology	3		

Junior Year

Physics 5, 6—Introduction to Physics	8	Zool. 209—Biological Chemistry	4
Psy. 210—Mental Hygiene	3	Zool. 211—General Bacteriology	4
Zool. 115—Elements of Anatomy	3	Electives*	10

Suggested electives: Govt. 1, 2; Math. 125; Phil. 103, 204; Soc. 218.

Medical Technology Curriculum. A course in medical technology trains students in the laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

*See requirements for the Bachelor of Arts degree or the Bachelor of Science degree.

**Students taking the four-year course should defer this to the last year.

***Students leaving at the end of the third year should elect this in the third year.

Technologists who wish to be recognized by the American Society of Clinical Pathologists must have had university training in appropriate subjects as a basis for practical hospital training. Students who satisfactorily complete the curriculum receive the degree of Bachelor of Science. At least three and a half years are devoted to classroom and laboratory instruction. This is followed by six months practical hospital experience which normally begins either in the middle of the fourth year or at the end of that year.

Freshman Year

The University College program should include:

Hours	Hours
Chem. 1-2 or 3-4—General Chemistry ----- 8	Zool. 3-4—General Zoology ----- 6
Fr. or Ger. 1-2—Beginning ----- 8	

Sophomore Year

Chem. 115, 119—Organic Chemistry ----- 5	Zool. 128—Histology ----- 4
Zool. 107—Principles of Heredity ----- 3	Electives* ----- 17
Zool. 115—Elements of Anatomy ----- 3	

Junior Year

Physics 5, 6—Introduction to Physics ----- 8	Zool. 212—Pathogenic Bacteriology ----- 4
Zool. 125—Elementary Physiology ----- 4	Zool. 216—Animal Parasites ----- 4
Zool. 209—Biological Chemistry ----- 4	Electives* ----- 6
Zool. 211—General Bacteriology ----- 4	

Senior Year

Chem. 109—Quantitative Analysis ----- 4	Electives* ----- 6
Zool. 133—Animal Microtechnic ----- 3	Hospital residence ----- 15
Zool. 145—Clinical Technic ----- 4	

Wild Life Control Curriculum. A curriculum for students who wish to prepare for Federal or state conservation service, biological surveys, fisheries, and economic entomology. The program outlined can be adapted to the requirements of each field. Additional work on the graduate level is necessary in some cases. Students interested in this program should consult with the head of the Department of Zoology.

Freshman Year

The University College program should include:

Chem. 1-2 or 3-4—General Chemistry ----- 8	Zool. 3-4—General Zoology ----- 6
Fr. or Ger. 1-2—Beginning ----- 8	

Sophomore Year

Bot. 101, 102—General Botany ----- 6	Conservation students:
Eng. 101, 102—Sophomore Literature ----- 6	Zool. 118—Ornithology ----- 3
Zool. 119—General Entomology ----- 4	Electives* ----- 11
	Entomology students:
	Electives* ----- 14

Suggested electives: Chem. 109; Govt. 1, 2 or 101, 102; Math. 1, 3; Phil. 103.

Junior Year

Bot. 216—Taxonomy of Vascular Plants ----- 3	Conservation students:
Math. 125—Elementary Statistics ----- 3	Electives* ----- 15
Zool. 107—Principles of Heredity ----- 3	Entomology students:
Zool. 205—Principles of Physiology ----- 4	Zool. 220—Adv. Entomology ----- 4
Zool. 228—Animal Ecology ----- 4	Electives* ----- 11

Suggested electives: Ag. 111; Ec. 101-102; Phil. 109.

Senior Year

Conservation students:	Entomology students:
Zool. 216—Animal Parasites ----- 4	Zool. 225-226—Adv. Invertebrate
Zool. 233—Biology of Vertebrates ----- 4	Zoology ----- 8
Zool. 234—Aquatic Management ----- 3	Electives* ----- 24
Electives* ----- 21	

Suggested electives: Bot. 221, 222; Geog. 125; Soc. 6; Zool. 133, 211, 243.

*See requirements for the Bachelor of Science degree.

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. Its aim is a fully rounded preparation for the profession of teaching, and its curricula are intended to prepare students for teaching in elementary schools, high schools, and colleges, and for the positions of school administrators, supervisors, and supervising critics. Its program of academic and professional study, including laboratory practice, is built about a fundamental belief in standards of the highest type designed to prepare teachers who will have adequate knowledge of their special fields, who will understand professional theory and how to apply it, and who will have attained a degree of skill which will enable them to go into the profession under circumstances favorable to immediate success, even as beginning teachers.

The degree of Bachelor of Science in Education is granted upon the completion of curricula covering courses of four years with specialization in elementary education, in any of the academic fields for teaching in high school, or in the special subjects of art, industrial arts, home economics, physical welfare, commerce, or music. These curricula must include certain general requirements and specialization requirements called majors. In addition to the high school or special subject major, the student is required to complete at least one minor with a minimum of 15 semester hours. All specified requirements of the State Department of Education of Ohio must be met not only in the professional subjects but also in the majors and minors. Subjects completed in the University College (freshman year) may in part satisfy general requirements and the requirements in the major. Candidates for the degree complete in addition to the general requirements and the requirements in the major and minor enough additional hours to make a minimum of 124 semester hours and 124 scholastic points required for graduation.

All graduates of the university with the degree of Bachelor of Science in Education or a diploma which satisfies the requirements of the State Department of Education are eligible to receive the four-year provisional certificate to teach in the schools for which the specific course gave preparation.

In compliance with the new certification law and in keeping with the trends toward higher standards for the certification of teachers, the College of Education has discontinued all two-year diploma courses. By September, 1945, all beginning teachers in the elementary schools of Ohio will be required to have a bachelor's degree. During the period of transition from the two-year to the four-year preparation, the college offers three-year courses for those who wish to become kindergarten-primary and intermediate grade teachers. These three-year courses require 96 semester hours and 96 scholastic points for the diploma, including the completion of specified courses.

Students who entered in September, 1937, and all students who have not yet completed the requirements for the two-year diploma course will need to complete the course by September 1, 1939, in order to qualify for a four-year provisional certificate on the basis of the two-year diploma or thereafter satisfy the new requirements.

The requirements of the State Department of Education during the transition from two to four years of preparation to teach in the elementary schools are indicated in the following outline:

Date of Entrance	Requirements by Date of Completion	Certificate Granted
September, 1937	Two-year diploma by Sept. 1, 1939	Four-year provisional
September, 1938	64 semester hours, including state requirements, on a three-year diploma course by Sept. 1, 1940	Temporary, at the request of the county, city, or exempted village superintendent; renewable if 12 semester hours are completed during the year; four-year provisional certificate on completion of the three-year course.
September, 1939	Three-year diploma by Sept. 1, 1942	Four-year provisional
September, 1940	94 semester hours on degree requirements by Sept. 1, 1943	Temporary, at the request of the county, city, or exempted village superintendent; renewable as above until completion of requirements for the degree.
September, 1941	B. S. in Ed. degree	Four-year provisional

The above plan of certification applies only to new entrants into the field of teaching in the elementary schools of Ohio. Certificates issued prior to the new regulations are valid.

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

The College of Education specifies 3 semester hours of observation and participation and from 4 to 8 semester hours of student teaching in the requirements outlined for the degree of Bachelor of Science in Education and for the two and three-year diplomas. Student teaching credit may be transferred from accredited colleges, but will not fully satisfy the requirements. In no case shall fewer than 2 or 3 semester hours of student teaching in the training schools of the university satisfy this requirement. Student teaching reservations should be made before the opening of the semester or summer session in which the work is to be completed. Reservation blanks can be secured from the Director of Teacher Training, Ohio University.

General prerequisites for student teaching:

1. At least C average in English Composition or C grade in the last semester of English Composition.
2. Demonstrated ability to write and speak English correctly and effectively.
3. In general, only students who meet the standard in the psychological test for entrance to teacher preparation shall be admitted to the courses in Observation and Participation and Student Teaching. This requirement is based on Sec. 7659 of the Ohio statutes and the regulations of the State Department of Education. Exceptions can be made to this standard only in case of a high scholastic record and unusually favorable personality traits.

Specific prerequisites for student teaching in the elementary school:

1. Completion of at least 64 semester hours (32 semester hours for students who will complete requirements for two-year diploma by September 1, 1939) of the outlined course including prerequisite requirements with at least as many points as semester hours attempted.
2. A score of at least 80 on the Ayers Scale for Handwriting.

Specific prerequisites for student teaching in the high school:

1. Completion of 90 semester hours of the outlined course with at least as many points as semester hours attempted.
2. Completion of subject matter, at least to the extent represented by the state requirements for a teaching minor, in the subject or field in which the teaching is to be done. These requirements are found on page 52. The scholastic record in the subject must include at least as many points as semester hours attempted.
3. Completion of the following courses in education with at least as many points as semester hours:
 - Psy. 5 Educational Psychology (3)
 - Ed. 130 Principles of Secondary Education (3)
 - Ed. Teaching Techniques (in subject to be taught) (2)
4. Completion of the following courses in education with at least as many points as semester hours attempted either before student teaching is begun or during the semester in which the teaching is done:
 - Ed. 180 or 182 High School Observation and Participation (3)
 - Ed. 131 Educational Measurements* (2)

TRAINING SCHOOLS

Elementary Schools. Student teaching is done in the kindergarten and the elementary grades of the University Elementary School maintained by Ohio University. The enrollment is not selective and the school is a typical school. The equipment compares favorably with that in the best city schools. Facilities for elementary teaching are also available in The Plains Elementary School at The Plains, a community four miles from Athens, and in the Mechanicsburg School, two miles from Athens. A supervising critic is in charge of each room of these elementary schools.

A unit of the University Elementary School is equipped for practice in Special Education. A group of from twelve to sixteen children is carefully selected from the schools of Athens. Opportunity is afforded for individual diagnosis of problem children.

Junior High School. Students who are preparing for teaching in the upper grades or junior high school do their student teaching in the Athens Junior High School, which has an enrollment of about four hundred students, or in The Plains High School.

*Not required of majors in art, commerce, home economics, industrial arts, mathematics, music, or physical welfare.

Senior High School. Students who are preparing for high school teaching do their student teaching in the Athens High School or in The Plains High School. The Athens Senior High School has an enrollment of about three hundred and fifty students and is located a short distance from the campus. The arrangements with the Athens High School and The Plains High School provide unusual facilities for all phases of high school teaching.

Transportation to the Mechanicsburg and The Plains schools is furnished by the university without cost to the students.

BACHELOR OF SCIENCE IN EDUCATION

General requirements for students who have majors in high school academic or special subjects:

	Hours
1. College Problems	1
2. Education and Psychology.....	28
Psy. 1—General Psychology	3
Psy. 5—Educational Psychology	3
Ed. 130—Principles of Secondary Education.....	3
Ed. 131—Educational Tests and Measurements (Not required of students who have majors in special subjects).....	2
Ed. 240 or 230—School or High School Adminis- tration	3
Ed. 180 or 182—Observation and Participation.....	3
Ed. 181 or 183—Student Teaching	4
Ed. Teaching Techniques	2
Elect from the following:	5
Ed. 232—High School Curriculum.....	2
Ed. 248—Vocational Guidance	2
Ed. 251 or 252—History of Education.....	3-2
Ed. 281—Educational Statistics	3
Psy. 203—Mental Measurements	3
Psy. 210—Mental Hygiene	3
3. English	9-13*
Eng. 1-4 or 3-4—English Composition	7-6
Eng. 102, 111, or 112	3-6*
*Required if no foreign language is taken.	
4. Foreign Language	0-8
Two units of high school credit or one year of college credit.	
5. P. A. Arts 125 The Arts in Every Day Life or Mus. 5 Music Appreciation.....	2-1
6. Physical Welfare (military science† may be substituted for 2 semester hours).....	4
7. Science and Mathematics.....	6-10
Biology, botany, chemistry, mathematics, physics, zoology	
8. Social Studies	12
Economics, geography, government, history, philosophy, sociology	

†Students who elect military science must complete 2 semester hours of physical welfare in addition to the 4 semester hours of military science.

Requirements for high school and special subject majors:**Agriculture**

Select 27 semester hours in agriculture:

	Hours		Hours
Ag. 1—General Agriculture	3	Ag. 121—Types and Breeds of Farm Animals	3
Ag. 3, 4—Forestry	4	Ag. 124—General Dairying	3
Ag. 102—Vegetable Gardening	3	Ag. 127—Types, Breeds, and Management of Poultry	3
Ag. 103—Fruit Growing	3	Ag. 131, 132—Floriculture and Greenhouse Management	4
Ag. 104—Small Fruits	3	Ag. 135—Farm Management	3
Ag. 109—Ornamental Horticulture	3	Ag. 141 or 142—Evolution and Heredity	3
Ag. 111—Rural Economics	3	Chem. 1-2 or 3-4—General Chemistry	8
Ag. 116—Field Crops	3	Ed. 168a—Teaching of Agriculture	3
Additional requirements:			
Bot. 1, 2 or 101, 102—Freshman or General Botany	6		

Biology (see Botany and Zoology)**Botany**

Bot. 1, 2 or 101, 102—Freshman or General Botany	6	Bot. 221—Plant Pathology	3
Bot. 205—Plant Physiology	3	Bot.—Approved electives	10
Additional requirements:			
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—General Zoology	6
Ed. 168b—Teaching of Botany or Ed. 168g—Teaching of General Science	2		

Chemistry

Chem. 1-2 or 3-4—General Chemistry	8	Chem.—Approved Electives	12-14
Chem. 115-116—Organic Chemistry	6		
Additional requirements:			
Ed. 168s—Teaching of Chemistry and Laboratory Practice	2-4	Physics 5, 6—Introduction to Physics or Physics 113, 114—General Physics	8
Math. 1—Elementary Algebra or Math. 5—Freshman Mathematics	4-5		

Commerce — Accounting

Acct. 75-76—Elementary Accounting	6	Ec. 101-102—Principles of Economics	6
Acct. 125—Intermediate Accounting	3	Fin. 101—Money and Credit	3
Acct. 156, 175, 195, 206, or 224—Electives	6	Fin. 121—Business Finance	3
B. Law 155-156—Business Law	6	Mkt. 15—Economic Geography	3
B. Mgt. 15—Introduction to Business Management or B. Mgt. 211—Industrial Management or B. Mgt. 271—Business Policy or Ec. 212—Administration of Personnel	3	Sec. St. 180—Operation of Office Machinery	1
Additional requirement:		Com.—Approved electives	3
Ed. 161b—Teaching of Bookkeeping	2		

Commerce— Accounting and Secretarial Studies

Acct. 75-76—Elementary Accounting	6	Mkt. 15—Economic Geography	3
Acct. 125—Intermediate Accounting	3	Sec. St. 15-16—Typewriting	4
Acct. 156, 175, 195, 206, or 224 Elective	3	Sec. St. 31-32—Shorthand	6
B. Law 155-156—Business Law	6	Sec. St. 120—Business Letter Writing	3
B. Mgt. 15—Introduction to Business Management or B. Mgt. 211—Industrial Management or B. Mgt. 271—Business Policy or Ec. 212—Administration of Personnel	3	Sec. St. 151—Dictation and Transcription	5
Fin. 101—Money and Credit	3	Sec. St. 180—Operation of Office Machinery	1
Additional requirement:		Com.—Approved electives	3
Ed. 161a, 161b, 161s, 161t—Teaching Techniques	2		

Commerce — Economics

Ec. 101-102—Principles of Economics	6	Ec.—Approved electives	16
Additional requirements:			
Ed. 169s—Teaching of Social Science	2	Soc. 103—Social Problems	3
Soc. 101—Principles of Sociology	3		

Commerce — Retail Selling

	Hours		Hours
Acct. 75-76—Elementary Accounting or		Mkt. 155—Marketing Principles	3
Acct. 101-102—Secretarial Accounting	6	Mkt. 171—Principles of Personal Selling	2
Adv. 155—Advertising Principles	3	Mkt. 201—Retailing	3
Adv. 186—Retail Advertising	3	Mkt. 205—Economics of Fashion	3
B. Mgt. 15—Introduction to Business		Mkt. 257—Retail Selling Problems	2
Management	3	Mkt. 260—Store Practice	5
Ec. 101-102—Principles of Economics	6		
Additional requirements:			
H. Ec. 256—Economics of Consumption	3	Psy. 4—Business Psychology or	
P. A. Arts 125—The Arts in Everyday Life	2	Psy. 6—Psychology of Advertising and	
P. A. Arts 147—Principles of the Space		Selling	3
Arts in Advertising	2		

Commerce — Secretarial Studies

B. Law 155—Business Law	3	Sec. St. 151—Dictation and Transcription	5
Fin. 101—Money and Credit	3	Sec. St. 171, 172—Secretarial Theory	3
Mkt. 15—Economic Geography	3	Sec. St. 175 or 176—Secretarial Practice	4
Sec. St. 15-16—Typewriting	4	Sec. St. 185—Office Management	2
Sec. St. 31-32—Shorthand	6	Com.—Approved electives	6
Sec. St. 120—Business Letter Writing	3		
Additional requirements:			
Ed. 161s—Teaching of Shorthand	2	Ed. 161t—Teaching of Typewriting	2

Commerce — Social Business

Acct. 75-76—Elementary Accounting	6	Fin. 106—Banking Principles	3
Adv. 155—Advertising Principles	3	Fin. 121—Business Finance	3
B. Law 155-156—Business Law	6	Mkt. 15—Economic Geography	3
B. Mgt. 15—Introduction to Business		Mkt. 155—Marketing Principles	3
Management	3	Sec. St. 120—Business Letter Writing	3
Ec. 205—Transportation	3	Com.—Approved electives	4

Dramatic Art

Dr. Art 1—Speech Survey	1	Dr. Art 140—Puppetry	3
Dr. Art 3—Public Speaking	2	Dr. Art 149—Principles of Acting	3
Dr. Art 15—Voice and Diction	2	Dr. Art 195—Introduction to Speech	
Dr. Art 110—Parliamentary Law	1	Pathology	3
Dr. Art 134—Oral Interpretation of			
Literature	2		
Additional requirements:			
Ed. 162h—Teaching of High School		Eng.—English and American Litera-	
Dramatics	2	ture	9-10

English

Eng. 3-4—English Composition	6	Eng.—Approved electives	16
Eng. 102, 111, 112, or 130—Electives	6		
Additional requirement:			
Ed. 164a, b—Teaching of English in Senior High School			4

French

Fr. 1-2—Beginning French	8	Fr.—Approved electives	14
Fr. 101-102—Intermediate French	8		
Additional requirements:			
Ed. 165f or Ed. 165p—Teaching of French	2	One other foreign language	12-16

Geography

Geog. 125-126—Geology	6	Geog.—Approved electives	21
Additional requirement:			
Ed. 169g—Teaching of Geography	3		

German

Ger. 1-2—Beginning German	8	Ger. 109-110—German Grammar and	
Ger. 101-102—Intermediate German	8	Composition	4
Additional requirements:			
Ed. 165g—Teaching of German	2	Ger.—Approved electives	10
		One other foreign language	12-16

History and Government

Govt. 1, 2—American Government	6	Hist. 110, 111—History of the United	
Hist. 1, 2—Survey of European Civil-		States	6
ization	6	Hist. and Govt.—Approved electives	10
Additional requirement:			
Ed. 169h—Teaching of History and Civics in Junior and Senior High Schools			2

Home Economics

	Hours		Hours
H. Ec. 1—Clothing Selection and Construction or		H. Ec. 222 or 227—Experimental or Quantity Cookery	3
H. Ec. 4—Clothing Appreciation	3	H. Ec. 225—Dietetics	3
H. Ec. 21—Foods and Nutrition or		H. Ec. 231—Home Planning	3
H. Ec. 22—Economics of Foods	3	H. Ec. 251—Home Management	2
H. Ec. 32—Household Equipment	3	H. Ec. 253—Home Management Laboratory	2
H. Ec. 110—Textiles	3	H. Ec. 256—Economics of Consumption	3
H. Ec. 216—Clothing Design and Construction or		H. Ec. 271, 272—Child Development	4
H. Ec. 211—Economics of Clothing	3	H. Ec. 273—Family Relationships	3
		H. Ec.—Approved electives	2
Additional requirements:			
Chem. 1-2 or 3-4—General Chemistry	8	P. A. Arts—Approved electives	5
Ed. 168h—Teaching of Home Economics	2-3	Zool. 141—Elementary Bacteriology	3

Industrial Arts

Ind. Arts 2—Elementary Woodworking	3	Ind. Arts 124—Machine Shop	2
Ind. Arts 7—Sheet Metal	2	Ind. Arts 141-142—Printing	6
Ind. Arts 8—General Shop	3	Ind. Arts 212—School Shop Equipment and Organization	3
Ind. Arts 109—Cabinet Making	3	Ind. Arts 226—History of Industrial and Vocational Arts	3
Ind. Arts 116—Constructive Design	2	Ind. Arts—Approved electives	6
Ind. Arts 121—Pattern, Forge and Foundry	2		
Additional requirements:			
C. E. 1-2—Mechanical Drawing	4	Chemistry, Physics 5, 6, or Mathematics—one year in the same subject	8-10
Ed. 160m—Teaching of Industrial Arts	3		

Italian

It. 1-2—Beginning Italian	8	It.—Approved electives*	14
It. 101-102—Intermediate Italian	8		
Additional requirements:			
Ed. 165f, Ed. 165p, Ed. 165r, or Ed. 165s—Teaching of French, Latin, or Spanish	2		
One other foreign language	12-16		

Latin

For those entering with 4 years of Latin:			
Lat. 101—Cicero's Essays	4	Lat. 112—Writing Latin Prose	1
Lat. 102—Horace and Terence	4	Lat. 231—The Life of the Romans	2
Lat. 103—Pliny's Letters	3	Lat. and Gr.—Approved electives	6-8
Lat. 104—Livy and Ovid	3		

For those entering with 2 years of Latin: Lat. 3 Cicero's Orations (4), Lat. 4 Vergil (4), and 19 hours from the above.

Additional requirement:

Ed. 165r—Teaching of Latin	2
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Mathematics

Math. 4—Solid Geometry or		Math. 34—Mathematics of Finance,	
Math. 105—College Geometry	3	Math. 112—Descriptive Astronomy, or	
Math. 5-6—Freshman Mathematics	10	Math. 201—Theory of Equations	3
Math. 117-118—Differential, Integral Calculus	8		
Additional requirements:			
Ed. 168j—Teaching of Mathematics in Junior High School	3	Ed. 281—Educational Statistics	3
Ed. 168m—Teaching of Mathematics in Senior High School	2		

Music — General Supervision

Mus.—Applied Music	6	Mus. 113-114—Analysis and Form	4
Mus.—Piano	4	Mus. 127—Music Appreciation	3
Mus.—Voice	4	Mus. 131—Music Materials and Systems	2
Mus. 3-4, 103-104—Ear Training and Sight Singing	8	Mus. 133-134—Instrumentation	6
Mus. 11-12—Music History	4	Mus. 173, 174—Conducting	2
Mus. 105-106, 107-108, 111-112—Harmony	8		
Additional requirements:			
Ed. 166d—Teaching of Dances and Games	1	Ed. 166s—Teaching of Class Stringed Instruments	1
Ed. 166f—Teaching of Music in First Six Grades	3	Ed. 166w—Teaching of Class Wind Instruments	1
Ed. 166j—Teaching of Music in Junior and Senior High Schools	3		

*May include Eng. 271 Dante

Music — Instrumental Supervision

	Hours		Hours
Mus.—Band	6	Mus. 12—Music History or	
Mus.—Major Instrument	8	Ed. 166f—Teaching of Music in First	
Mus.—Minor Instrument	4	Six Grades	2-3
Mus.—Orchestra	6	Mus. 105-106, 107-108, 111-112—Harmony	10
Mus.—Piano	2	Mus. 113-114—Analysis and Form	4
Mus. 3-4, 103-104—Ear Training and		Mus. 127—Music Appreciation	3
Sight Singing	8	Mus. 133-134—Instrumentation	6
Mus. 11—Music History	2	Mus. 173, 174—Conducting	2

Additional requirements:

Ed. 166b—Teaching of Instrumental		Ed. 166j—Teaching of Music in Junior	
Music	3	and Senior High Schools	3

Note. Achievement of some proficiency in playing an orchestral instrument is expected of one who elects to enter upon the instrumental course.

Painting and Allied Arts

P.A. Arts 11-12—Theory of Design	6	P.A. Arts 118—Water Color	2
P.A. Arts 21-22—History of Art	6	P.A. Arts 137—Costume Design	2
P.A. Arts 103—Practical Design	2	P.A. Arts 152—Bookbinding	2
P.A. Arts 113—Lettering	3	P.A. Arts 171—House Decoration	3
P.A. Arts 114—Textile Design	3	P.A. Arts 207—Advanced Design	3
P.A. Arts 115—Pottery	2	P.A. Arts—Approved electives	3
P.A. Arts 117—Drawing	3		

Additional requirements:

C. E. 1—Mechanical Drawing	2	Ed. 249—Art Supervision and Curricula	2
Ed. 160h—Teaching of the Space Arts	2		

Physical Welfare — Men

P. W. 1-2—Sports	2	P. W. 153—Nature and Function of Play	2
P. W. 22—Personal and Public Health	3	P. W. 204—Principles of Physical Welfare	2
P. W. 121-122, 123, 124, 171—Physical		P. W. 206—Organization and Administra-	
Activities	7	tion of Physical Welfare	2
P. W. 125—Scouting	1	P. W. 209—Physical Activities Tests	2
P. W. 127—First Aid	2	P. W. 250—Community Recreation	2
P. W. 133—Theory and Practice of		P. W. 252—School Health Program	3
Adapted Activities	2		
P. W. 152—Kinesiology	2		

Additional requirements:

Ed. 167d—Coaching of Baseball	1	Ed. 167t—Coaching of Track	1
Ed. 167e—Coaching of Basketball	2	Zool. 3-4—General Zoology	6
Ed. 167f—Coaching of Football	2	Zool. 115—Elements of Anatomy	3
Ed. 167h—Teaching of Health	2	Zool. 125—Elementary Physiology	4

Physical Welfare — Women

P. W. 1, 2, 6, 7, 8—Sports and Dance	5	P. W. 171, 172—Organization of Physical	
P. W. 22—Personal and Public Health	3	Activities	4
P. W. 121, 122—Physical Activities	2-6	P. W. 204—Principles of Physical Welfare	2
P. W. 127—First Aid	2	P. W. 206—Organization and Administra-	
P. W. 131—Mass Games	1	tion of Physical Welfare	2
P. W. 132—Physical Welfare Practice	1	P. W. 209—Physical Activities Tests	2
P. W. 133—Theory of Adapted Activities	2	P. W. 250—Community Recreation	2
P. W. 152—Kinesiology	2	P. W. 252—School Health Program	3

Additional requirements:

Ed. 167a, 167b—Teaching of Coaching	4	Zool. 115—Elements of Anatomy	3
Ed. 167h—Teaching of Health	2	Zool. 125—Elementary Physiology	4
Zool. 3-4—General Zoology	6		

Physics

Physics 5, 6—Introduction to Physics	8	Physics—Approved electives	10
Physics 113, 114—General Physics	8		
Additional requirements:		Math. 5-6—Freshman Mathematics	10
Chem. 1-2 or 3-4—General Chemistry	8		
Ed. 168p—Teaching of Physics	2		

Psychology

Psy. 1—General Psychology	3	Psy. 203—Mental Measurements	3
Psy. 3—Child Psychology	3	Psy.—Electives	12
Psy. 5—Educational Psychology	3		
Electives:		Psy. 205—Clinical Psychology	3
Psy. 109—Experimental Psychology	3	Psy. 209—Motivation	3
Psy. 113—Psychology of Junior and		Psy. 210—Mental Hygiene	3
Senior High School Pupils	2	Psy. 217—Psychology of Personality	3
Psy. 116—Psychology of Individual		Psy. 219—Adv. Clinical Psychology	3
Differences	3	Psy. 233—Learning and Memory	2
Psy. 204—Psychology of Exceptional		Psy. 278—Adv. Educational Psychology	3
Children	3		

Sociology			
	Hours		Hours
Soc. 101—Principles of Sociology-----	3	Soc.—Approved electives -----	12
Soc. 103—Social Problems -----	3		
Additional requirements:			
Ec. 101-102—Principles of Economics-----	6	Ed. 169s—Teaching of Social Science----	2
Spanish			
Sp. 1-2—Beginning Spanish -----	8	Sp.—Approved electives -----	14
Sp. 101-102—Intermediate Spanish -----	8		
Additional requirements:			
Ed. 165s—Teaching of Spanish-----	2	One other foreign language-----	12-16
Zoology			
Zool. 3-4—General Zoology -----	6	Zool. 205—Principles of Physiology -----	4
Zool. 119—General Entomology -----	4	Zool.—Approved electives -----	10
Additional requirements:			
Bot. 1, 2 or 101, 102—Freshman or Gen- eral Botany -----	6	Ed. 168z—Teaching of Zoology-----	2

General requirements for students who have majors in elementary education—kindergarten-primary, intermediate grades, and special education:

	Hours
1. College Problems -----	1
2. Education and Psychology-----	14
Psy. 1—General Psychology -----	3
Ed. 111—Elementary Education (Principles, Man- agement, and Educational Tests)-----	6
Ed. 141—Visual Education -----	2
Ed. 255—Philosophy of Education-----	3
3. English -----	13-12
Eng. 1-4 or 3-4—English Composition -----	7-6
Eng. 102, 111, 112, or 130 -----	6
4. Dr. Art 15 Voice and Diction-----	2
5. Foreign Language -----	0-8
Two units of high school credit or one year of college credit.	
6. Home and Shop Arts-----	3
H. Ec. 41 or 42—Household Arts for the Elemen- tary School -----	2
Ind. Arts 122—Home Mechanics -----	1
7. Mus. 2—Music Fundamentals -----	2
8. Painting and Allied Arts-----	3
P. A. Arts 3—Fundamentals of Design-----	2
P. A. Arts 157—Appreciation of the Space Arts---	1
9. Physical Welfare -----	8
P. W.—Freshman and sophomore requirement (military science* may be substituted for 2 semester hours) -----	4
P. W. 22—Personal and Public Health-----	3
Ed. 167p—Teaching of Physical Welfare-----	1

*Students who elect military science must complete 2 semester hours of physical welfare in addition to the 4 semester hours of military science.

	Hours
10. Science and Mathematics-----	9-17
Science -----	9
Bot. 133, 134—Nature Study	
Physics 1, 2—The Physical World	
Mathematics -----	0-8
Two units of high school mathematics or	
Math. 1—Elementary Algebra and	
Math. 3—Plane Geometry	
11. Social Studies -----	17
Geog. 150—Geography and Environment-----	3
Soc. 1—Social Development -----	3
Soc. 3—Educational Sociology -----	2
Elect from the following:	9
Ec. 1, 2—Economic Development or Ec. 101, 102—	
Principles of Economics	
Govt. 1, 2—American Government or Hist. 110,	
111—History of the United States	
Hist. 1, 2—A Survey of European Civilization	
Phil. 103—Introduction to Philosophy	

Additional requirements for students who have a major in intermediate grades:

Sophomore Year	
Ed. 63b—Teaching of Reading in Intermediate Grades-----	2
Ed. 63g—Teaching of Arithmetic in Intermediate Grades-----	3
Ed. 166e—Teaching of Music in Intermediate Grades-----	2
Psy. 5—Educational Psychology -----	3

Junior Year	
Ed. 60g—Teaching of Design for Intermediate and Higher Grades-----	1
Ed. 61g—Teaching of Language in the Grades or	
Ed. 169b—Teaching of History in Elementary Schools or	
Ed. 169g—Teaching of Geography -----	2-3
Ed. 175—Observation and Participation -----	3
Ed. 176—Student Teaching -----	4
Eng. 10—Juvenile Literature -----	2

Senior Year	
Ed. 177—Advanced Student Teaching -----	4
Ed. 211—The Elementary Curriculum -----	3
Ed. 256—Progressive Education -----	3
Govt. 105—Current Political and Social Problems-----	3

Additional requirements for students who have a major in kindergarten-primary education:

Sophomore Year	
Ed. 1—Play and Play Materials -----	2
Ed. 2—Literature for Early Childhood -----	3
Ed. 63a—Teaching of Reading in Primary Grades-----	2
Ed. 166k—Teaching of Music in Kindergarten-Primary Grades-----	2
Mus.—Piano -----	2
Psy. 3—Child Psychology -----	3

Junior Year		Hours
Ed. 60c—Teaching of Design for Early Childhood	-----	1
Ed. 101—Activities for Early Childhood	-----	3
Ed. 171—Observation and Participation	-----	3
Ed. 172, 173—Student Teaching	-----	6

Senior Year		
Ed. 174—Advanced Student Teaching	-----	4
Ed. 201—Kindergarten-Primary Curriculum	-----	3
Ed. 202—Current Problems in Kindergarten-Primary Education	-----	2

Additional requirements for students who have a major in special education:

Sophomore Year		
Ed. 61g—Teaching of Language or		
Ed. 169g—Teaching of Geography	-----	2-3
Ed. 63b—Teaching of Reading in Intermediate Grades	-----	2
Ed. 166e—Teaching of Music in Intermediate Grades	-----	2
Ed. 221—Organization of Special Classes	-----	2
P. A. Arts 103—Practical Design or		
Ed. 101—Activities for Early Childhood	-----	2-3
Psy. 5—Educational Psychology	-----	3

Junior Year		
Ed. 175—Observation and Participation	-----	3
Ed. 178—Student Teaching	-----	4
Ed. 222—Diagnosis and Remedial Instruction in Elementary Subjects	---	2
Psy. 116—Psychology of Individual Differences or		
Psy. 212—Abnormal Psychology	-----	3
Psy. 203—Mental Measurements	-----	3

Senior Year		
Ed. 177—Advanced Student Teaching	-----	4
Ed. 223—Curriculum for Special Classes	-----	3
Ed. 240—School Administration	-----	3
Psy. 225—Minor Problems	-----	2

THREE-YEAR DIPLOMA COURSES†

Curriculum for three-year diploma in intermediate grades:

Freshman Year			
First Semester	Hours	Second Semester	Hours
Bot. 133—Nature Study	3	Bot. 134—Nature Study	3
Eng. 1 or 3—English Composition	4-3	Eng. 4—English Composition	3
College Problems	1	Dr. Art 15—Voice and Diction	2
H. Ec. 41—Household Arts for the Elem. School or		H. Ec. 41—Household Arts for the Elem. School or	
Mus. 2—Music Fundamentals	2	Mus. 2—Music Fundamentals	2
P. W. 1-9—Physical Welfare	1	P. W. 2-10—Physical Welfare	1
P. W. 22—Personal and Public Health	3	P. A. Arts 3—Fundamentals of Design	2
Soc. 1—Social Development	3	Psy. 1—General Psychology	3

†94 semester hours and 94 scholastic points, including the completion of all specified courses, are required for the three-year diploma.

Sophomore Year			
First Semester	Hours	Second Semester	Hours
Ed. 63b—Teaching of Reading	2	Ed. 64g—Teaching of Language	2
Ed. 63g—Teaching of Arithmetic.....	3	Ed. 166e—Teaching of Music.....	2
Ed. 167p—Teaching of Physical Welfare or		Ed. 167p—Teaching of Physical Welfare* or	
Ind. Arts 122—Home Mechanics	1	Ind. Arts 122—Home Mechanics	1
Geog. 150—Geography and Environment...	3	Eng. 111 or 112—The Chief American Writers*	3
Hist. 1—Survey of Eur. Civilization.....	3	Hist. 2—Survey of Eur. Civilization*.....	3
P. W. 101-115—Physical Welfare	1	Physics 1—The Physical World*.....	3
Psy. 5—Educational Psychology	3	Soc. 3—Educational Sociology*	2
Junior Year			
Ed. 111—Elementary Education**	6	Ed. 60g—Teaching of Design	1
Ed. 175—Observation and Participation**	3	Ed. 141—Visual Education	2
Ed. 176—Student Teaching**	4	Eng. 10—Juvenile Literature	2
Elect from general requirements in elementary education	3	P. A. Arts 157—Appreciation of the Space Arts	1
		P. W. 102-116—Physical Welfare	1
		Elect from general requirements in elementary education	7

Curriculum for three-year diploma in kindergarten-primary education:†

Freshman Year			
Bot. 133—Nature Study	3	Bot. 134—Nature Study	3
College Problems	1	Ed. 1—Play and Play Materials.....	2
Eng. 1 or 3—English Composition	4-3	Eng. 4—English Composition	3
H. Ec. 41—Household Arts for the Elem. School or		H. Ec. 41—Household Arts for the Elem. School or	
P. A. Arts 3—Fundamentals of Design...	2	P. A. Arts 3—Fundamentals of Design...	2
P. W. 1-9—Physical Welfare	1	P. W. 2-10—Physical Welfare	1
P. W. 22—Personal and Public Health...	3	Mus. 2—Music Fundamentals	2
Soc. 1—Social Development	3	Psy. 1—General Psychology	3
Sophomore Year			
Ed. 2—Literature for Early Childhood...	3	Dr. Art 15—Voice and Diction	2
Ed. 63a—Teaching of Reading	2	Geog. 150—Geography and Environment*	3
Ed. 101—Activities for Early Childhood...	3	Ed. 166k—Teaching of Music.....	2
Ed. 167p—Teaching of Physical Welfare or		Ed. 167p—Teaching of Physical Welfare* or	
Ind. Arts 122—Home Mechanics	1	Ind. Arts 122—Home Mechanics*.....	1
Hist. 1—Survey of Eur. Civilization.....	3	Hist. 2—Survey of Eur. Civilization*.....	3
P. W. 101-115—Physical Welfare	1	Physics 1—The Physical World*.....	3
Psy. 3—Child Psychology	3	Soc. 3—Educational Sociology*	2
Junior Year			
Ed. 111—Elementary Education**	6	Ed. 60c—Teaching of Design	1
Ed. 171—Observation and Participation**	3	Ed. 141—Visual Education	2
Ed. 172—Student Teaching**	4	Ed. 173—Student Teaching	2
Eng. 111 or 112—The Chief American Writers	3	Eng. 111 or 112—The Chief American Writers	3
		P. A. Arts 157—Appreciation of the Space Arts	1
		P. W. 102-116—Physical Welfare	1
		Elect from general requirements in elementary education	4

*Should be deferred until the junior year if a temporary certificate is desired at the close of the sophomore year.

**Should be taken during the second semester of the sophomore year if a temporary certificate is desired at the close of the sophomore year.

†94 semester hours and 94 scholastic points, including the completion of all specified courses, are required for the three-year diploma.

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce. As the conception of training for business life broadened, the curricula in commerce were steadily expanded until today they include the fields of accounting, advertising, banking, business law, economics, finance, labor, management, marketing, public utilities, and statistics. As a result, the College of Commerce offers a comprehensive program of courses in business and economics leading to the degree of Bachelor of Science in Commerce. The college also includes the Department of Secretarial Studies, the curriculum of which leads to the degree of Bachelor of Science in Secretarial Studies; and the School of Journalism, which offers theoretical and practice courses leading to the degree of Bachelor of Science in Journalism.

Because it is desirable for business men and women to share activities and leadership in social, civic, governmental, and general professional life, every student in the College of Commerce takes courses in other schools and colleges of the university to widen his scope of interest. The College of Commerce in turn aims to serve students enrolled in other colleges of the university. Such students are admitted to any of its courses on the same basis as are students registered in the College of Commerce.

All candidates for degrees in this college complete a minimum of 124 semester hours and 124 scholastic points. The total hours include the requirements of the University College, four semester hours of physical welfare or military science, and three years of work under the direction of the College of Commerce comprising approximately 94 semester hours.

BACHELOR OF SCIENCE IN COMMERCE. The 124 semester hours required for the degree of Bachelor of Science in Commerce include approximately 50 semester hours in commercial and economic subjects and 50 semester hours in subjects other than economics and commerce. During the three years in the College of Commerce, approximately one half of the curriculum is on an elective basis. Through the use of elective hours, a student can give almost any emphasis he desires to his college training. A portion of the elective courses may be concentrated in one field or they may be spread among several. All elective courses are subject to the approval of the dean of the college or his appointed faculty advisers. The curriculum leading to the degree of Bachelor of Science in Commerce follows:

Freshman Year

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting or		Acct. 76—Elementary Accounting or	
B. Mgt. 15—Intro. to Business Mgt. -----	3	Mkt. 15—Economic Geography -----	3
Soc. 1—Social Development* -----	3	Ec. 1—Economic Development* -----	3

*May be taken either semester.

Sophomore Year

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Fin. 101—Money and Credit* -----	3	Fin. 121—Business Finance* -----	3
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry -----	1	Mil. Sc. 102—Basic Infantry -----	1
Sec. St. 120—Business Letter Writing -----	3	Eng.—Elective* -----	2 or 3
Electives -----	3	Electives -----	3
	16		15-16

Junior Year

B. Law 155—Business Law -----	3	B. Law 156—Business Law -----	3
B. Mgt. 211—Industrial Management* -----	3	†Adv. 155—Advertising Principles* -----	3
Mkt. 155—Marketing Principles* -----	3	Ec.—Elective* -----	2 or 3
Stat. 155—Business Statistics -----	2	Stat. 156—Business Statistics -----	2
Electives -----	5	Electives -----	5
	16		15-16

Senior Year

B. Law. 175—Government and Business* -----	2	Philos. 111—Business and Professional Ethics* -----	2
Electives -----	14	Electives -----	14
	16		16

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING. Recognizing the need and the increasing demand for executives in industry to have a knowledge of and training in economics and business management, the College of Commerce cooperates with the College of Applied Science in offering a curriculum for industrial engineering which is given in outline form on page 81. Two definite fields of major study are open to students in this curriculum, management and marketing.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES. In order to prepare secretaries for responsible positions in business and other offices, the curriculum in secretarial studies affords students the same opportunity for becoming acquainted with basic business courses and general non-business courses as does the curriculum for the Bachelor of Science in Commerce. In the strictly secretarial subjects, students are expected to meet the standards of proficiency required for successful employment. Special care is taken to enable students to secure carefully supervised practice in the secretarial field as a part of the curriculum. This practice includes the use of all representative office machinery and experience in secretarial techniques under normal business office conditions. The curriculum leading to the degree follows:

Freshman Year

The University College program should include:

Soc. 1—Social Development* -----	3	Ec. 1—Economic Development* -----	3
B. Mgt. 15—Intro. to Business Mgt. or		Mkt. 15—Economic Geography or	
Sec. St. 15—Typewriting or		Sec. St. 16—Typewriting or	
Sec. St. 31—Shorthand -----	2-3	Sec. St. 32—Shorthand -----	2-3

*May be taken either semester.

†Mkt. 158 or Mkt. 201 may be substituted.

Sophomore Year			
First Semester		Second Semester	
	Hours		Hours
Acct. 101—Secretarial Accounting -----	3	Acct. 102—Secretarial Accounting -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry -----	1	Mil. Sc. 102—Basic Infantry -----	1
Sec. St. 15—Typewriting -----	2	Sec. St. 16—Typewriting -----	2
Sec. St. 31—Shorthand -----	3	Sec. St. 32—Shorthand -----	3
Sec. St. 120—Business Letter Writing-----	3	Eng.—Elective -----	2 or 3
Electives -----	2	Electives -----	2
	17		16-17
Junior Year			
Mkt. 155—Marketing Principles** -----	3	†Adv. 155—Advertising Principles** ----	3
Psy. 1—General Psychology -----	3	Psy. 220—Psychology of Personnel-----	2
Sec. St. 151—Dictation and Transcription--	5	Sec. St. 185—Office Management -----	2
Sec. St. 171—Secretarial Theory -----	2	Sec. St. 172—Secretarial Theory -----	1
Electives -----	3	Electives -----	8
	16		16
Senior Year			
B. Law 155—Business Law -----	3	B. Law 156—Business Law -----	3
Fin. 121—Business Finance** -----	3	Fin. 101—Money and Credit** -----	3
Sec. St. 111—Typewriting -----	2	Sec. St. 152—Dictation and Transcription--	5
Sec. St. 176—Secretarial Practice -----	4	Electives -----	5
Electives -----	4		
	16		16

Commercial Teacher Training. Training to prepare students for the teaching of commercial subjects in high school is offered by the College of Commerce in cooperation with the College of Education. The curricula for these fields, which include accounting, accounting and secretarial studies, economics, retail selling, secretarial studies, and social business, are outlined on page 65.

BACHELOR OF SCIENCE IN JOURNALISM. The curricula leading to the degree of Bachelor of Science in Journalism include not only classroom courses, but also actual experience on the staff of a daily newspaper under the direction of news and business executives. Classroom and laboratory courses, together with allied printing and advertising courses, offer an opportunity to meet the needs of those planning for a writing career, those interested in business management of publications, and those desiring to unite the two interests. Special curricula are outlined for those wishing to limit their training to magazine and feature writing or to newspaper advertising. Combined with the student's selection from journalism and allied courses is a broad cultural background in which emphasis is placed upon literature, economics, finance, government, history, art, philosophy, psychology, and sociology. Development of specific fields of interest is encouraged. Special courses without journalism prerequisites are available for those who wish to write for magazines and trade journals and for those who plan to supervise high school publications or teach journalism in high schools.

**It is suggested that these foundation courses be carried in the third or fourth year according to the interests of the student. For example, if a student wishes to carry advanced work in banking and finance, it is recommended that the foundation courses in these fields be carried the third year.

†Mkt. 158 or Mkt. 201 may be substituted.

The School of Journalism offers the following curriculum sequences which allow for specialization in certain fields of journalism. The courses within the curricula may be varied to meet the needs of students who have special interests which they would like to pursue.

Freshman Year

The University College program should include:

Hours	Hours
B. Mgt. 15—Intro. to Business Mgt. or	Mus. 5—Music Appreciation ----- 1
Sec. St. 15—Typewriting* ----- 3-2	P. A. Arts 7—Intro. to Fine Arts ----- 2
French, German, Spanish, and Italian**_6-8	Psy. 1—General Psychology ----- 3
Hist. 1, 2—Survey of Eur. Civilization___ 6	Zool. 3-4—General Zoology** ----- 6

Sophomore Year

General curriculum sequences: Ec. 101-102; Jour. 103, 105, 108; P.W. 101-102 or Mil.Sc. 101-102.

Additional courses for the sophomore year:

Business Management: Acct. 75-76; Adv. 155; Mkt. 155, 171.
 General Writing and Editing: Govt. 101; Ind. Arts 145; Jour. 172; Soc. 101.
 Magazine and Feature Writing: Eng. 101, 102, 150; Soc. 101.
 Newspaper Advertising: Acct. 75-76; Ind.Arts 145; Mkt. 155, 171.

Junior and Senior Years

General curriculum sequences: Jour. 151-152, 206, 208.

Additional courses for junior year:

Business Management: Bus.Law 155-156; Ind.Arts 141-142; Jour. 175, 243.
 General Writing and Editing: Jour. 111, 117, 222; P.A.Arts 77.
 Magazine and Feature Writing: Dr.Art 103; Eng. 143, 175, 224, 234; Jour. 111, 130, 222; P.A.Arts 77.
 Newspaper Advertising: Adv. 155, 186, 232; Jour. 175, 243; Mkt. 201; P.A.Arts 147; Psy. 6.

Additional courses for senior year:

Business Management: Bus.Law 211; Bus.Mgt. 271; Ec. 212; Jour. 173, 177, 247; Mkt. 201.
 General Writing and Editing: Jour. 112, 121-122, 207, 225.
 Magazine and Feature Writing: Eng. 236, 254; Jour. 112, 134, 223, 225.
 Newspaper Advertising: Adv. 281; Jour. 177, 247; Mkt. 205, 281.

*Not required if student can use a typewriter proficiently.

**If a course in foreign language or science is required or desired, the course should be selected from those listed. Foreign languages are listed in the order generally considered the most valuable for journalism students.

THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science endeavors to give the student a thorough training in the fundamental sciences in his elected field and to supplement these fundamentals with studies showing the basic application of the sciences to various industries and occupations. The curricula are arranged so that a student may enter the fields of consultation, development, operation, management, or marketing and are designed to train the student so that he may have a choice of more than one position. In certain curricula, options afford a degree of specialization to those students who definitely elect a more limited profession; however, true specialization only begins after the graduate enters his professional career.

The College of Applied Science, composed of the Departments of Agriculture, Civil Engineering, Electrical Engineering, and Industrial Arts, and the School of Home Economics, offers curricula in the fields of agriculture, engineering, and home economics leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Architectural Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Industrial Engineering, and Bachelor of Science in Home Economics.

The general requirements for admission are given on page 40. However, students who intend to follow one of the engineering curricula should present credit in physics, chemistry, algebra, and plane geometry. The student may take the above courses in the University College, but since the courses in physics and engineering require a knowledge of science and mathematics, more rapid progress in the outlined curricula can be made if these subjects are taken in high school.

Students electing the curriculum leading to the degree of Bachelor of Science in Agriculture or the Bachelor of Science in Home Economics fulfill the requirements of the degree by taking the courses outlined and securing a minimum of 124 semester hours with 124 scholastic points. Students electing a curriculum leading to the degree of Bachelor of Science in Engineering in the specified field fulfill the requirements of the degree by taking the courses outlined and securing 140 semester hours with 140 scholastic points. The total number of semester hours and scholastic points specified includes the requirements of the University College, 4 semester hours of physical welfare or military science, and the curriculum outlined by the College of Applied Science.

Students Who Desire to Teach. Students who desire to teach agriculture, industrial arts, or home economics may enroll for the degree of Bachelor of Science in Education offered by the College of Education. However, students who enroll in the College of Applied Science and complete the requirements for the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics may secure a teaching certificate by satisfying the education requirements specified by the College of Education and the Department of Education of the state in which the student desires to teach. See Courses of Instruction for the major requirements in agriculture and industrial arts.

BACHELOR OF SCIENCE IN AGRICULTURE. The curriculum outlined is designed for those who desire to equip themselves for service in general agriculture. Electives allow the student a degree of specialization in farm operation, horticulture, plant husbandry, and allied subjects. The courses are primarily fundamental to agriculture, its growth and improvement, and to the needs of the community and state.

Freshman Year

The University College program should include:

First Semester	Hours	Second Semester	Hours
Bot. 1—Freshman Botany	3	Ag. 1—General Agriculture	3
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
Physics 5—Introduction to Physics	4	Physics 6—Introduction to Physics	4

Sophomore Year

Ag. 3—Forestry	2	Ag. 4—Forestry	2
Ag. 111—Rural Economics	3	Ag. 102—Vegetable Gardening	3
Ag. 121—Types and Breeds of Farm Animals	3	Ag. 127—Types, Breeds and Manage- ment of Poultry	3
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Ind. Arts 1—Elementary Woodworking or Mkt. 155—Marketing Principles	3	Zool. 3—General Zoology	3
P. W. 101—Sports or Mil. Sc. 101—Basic Infantry	1	P. W. 102—Sports or Mil. Sc. 102—Basic Infantry	1
	<hr/> 16		<hr/> 16

Junior Year

Ag. 103—Fruit Growing	3	Ag. 104—Small Fruits	3
Ag. 131—Floriculture and Greenhouse Management or Mkt. 191—Cooperative Marketing	2	Ag. 135—Farm Management	3
Ag. 143—Genetics	3	Ag. 144—Genetics	3
Zool. 141—Elementary Bacteriology	4	Zool. 119—General Entomology	4
Elective—As approved	3	Elective—As approved	2
	<hr/> 15		<hr/> 15

Senior Year

Ag. 115—Soils and Fertilizers	3	Ag. 116—Field Crops	3
Ag. 124—General Dairying	3	Ag. 109—Ornamental Horticulture	2
Ag. 226—Forest Survey	3	Bot. 205—Plant Physiology or Bot. 221—Plant Pathology	3
Electives—As approved	6	Electives—As approved	6
	<hr/> 15		<hr/> 15

CURRICULA IN ENGINEERING

Freshman students who intend to select a curriculum in engineering should make their intention known when they register in order that subjects prerequisite to courses required in the curriculum may be included in the University College program. The student should register for the following:

Freshman Year

Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
C. E. 1—Mechanical Drawing	2	C. E. 2—Mechanical Drawing	2
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
		E. E. 1—Engineering Orientation	1

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING. The curriculum for this degree is designed to combine the essentials of architectural design and civil engineering. The student who completes the course is prepared to engage in architectural work either in residence design or architectural

engineering or, by a proper choice of electives, in any of several fields of civil engineering.

Freshman Year

See courses given in first paragraph of Curricula In Engineering.

Sophomore Year

First Semester	Hours	Second Semester	Hours
C. E. 105—Descriptive Geometry -----	3	C. E. 74—Engineering Instruments -----	1
C. E. 107—Perspective Drawing -----	1	C. E. 110—Plane Surveying -----	3
Math. 117—Differential Calculus -----	4	Math. 118—Integral Calculus -----	4
P. A. Arts 21—History of Space Arts ----	3	P. A. Arts 22—History of Space Arts ----	3
P. A. Arts 45—Methods in Representation	2	P. A. Arts 104—Elementary Architectural Drawing and Design -----	2
Physics 113—General Physics -----	4	Physics 114—General Physics -----	4
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry -----	1	Mil. Sc. 102—Basic Infantry -----	1
	18		18

Junior Year

C. E. 121—Applied Mechanics -----	3	Acct. 81—Accounting Survey -----	2
C. E. 123—Materials of Construction -----	2	C. E. 124—Strength of Materials -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
E. E. 133—Illuminating Engineering -----	2	C. E. 126—Testing Laboratory -----	1
Dr. Art 3—Public Speaking -----	2	C. E. 138—Stresses in Structures -----	3
P. A. Arts 155—Intermediate Archi- tectural Design -----	3	P. A. Arts 156—Intermediate Archi- tectural Design -----	3
Elective -----	3	Elective -----	3
	18		18

Senior Year

C. E. 127—Testing Laboratory -----	1	C. E. 134—Structural Design -----	2
C. E. 135—Reinforced Concrete -----	4	C. E. 136—Masonry -----	3
C. E. 139—Structural Design -----	3	C. E. 276—Contracts and Specifications --	2
C. E. 227—Adv. Structural Analysis -----	3	Eng. 114—Engineering English -----	2
P. A. Arts 255—Adv. Architectural Design	6	P. A. Arts 256—Adv. Architectural Design	6
Elective -----	2	Elective -----	3
	19		18

Suggested Electives:

C. E. 228—Adv. Structural Analysis -----	2	C. E. 141—Hydraulics -----	4
C. E. 278—Engineering Costs -----	3	C. E. 142—Sanitary Engineering -----	3
E. E. 125—Acoustics -----	3	E. E. 127—Electrical Engineering -----	3
E. E. 229—Engineering Thermodynamics --	3	E. E. 230—Heat Power Engineering -----	3

BACHELOR OF SCIENCE IN CIVIL ENGINEERING. The curriculum for the degree is planned to give the fundamental training necessary to a broad understanding of the field. Opportunity is given in the junior and senior years to elect courses so that the student may pursue any of three options: structural, sanitary, or transportation engineering. The student is not required to select an option, however, and may elect work in any department of the university.

Freshman Year

See courses given in first paragraph of Curricula In Engineering.

Sophomore Year

C. E. 74—Engineering Instruments -----	1	C. E. 105—Descriptive Geometry -----	3
Dr. Art 3—Public Speaking -----	2	C. E. 110—Plane Surveying -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Geog. 125—Physiographic Geology -----	3	Math. 118—Integral Calculus -----	4
Math. 117—Differential Calculus -----	4	Physics 114—General Physics -----	4
Physics 113—General Physics -----	4	P. W. 102—Sports or	
P. W. 101—Sports or		Mil. Sc. 102—Basic Infantry -----	1
Mil. Sc. 101—Basic Infantry -----	1		
	18		18

Junior Year			
First Semester	Hours	Second Semester	Hours
C. E. 111—Field Work	2	Acct. 81—Accounting Survey	2
C. E. 121—Applied Mechanics	3	C. E. 124—Strength of Materials	3
C. E. 122—Materials of Construction	2	C. E. 126—Testing Laboratory	1
C. E. 125—Engineering Problems	3	C. E. 130—Stresses in Structures	5
C. E. 151—Railroad Engineering	3	C. E. 132—Graphic Statics	1
E. E. 127—Electrical Engineering	3	C. E. 152—Highway Engineering	3
Elective	3	Elective	3
	19		18

Senior Year			
C. E. 112—Topographic Surveying	2	Eng. 114—Engineering English	2
C. E. 132—Structural Design	5	C. E. 134—Structural Design	2
C. E. 135—Reinforced Concrete	4	C. E. 136—Masonry	2
C. E. 127—Testing Laboratory	1	C. E. 142—Sanitary Engineering	2
C. E. 141—Hydraulics	4	C. E. 276—Contracts and Specifications	3
Elective	2	C. E. 278—Engineering Costs	3
	18	C. E. 291—Seminar	1
		Elective	2
			18

Suggested Electives:

C. E. 107—Perspective Drawing	1	C. E. 214—Adv. Surveying Problems	2
Geog. 126—Historical Geology	3	E. E. 229—Engineering Thermodynamics	3
Geog. 132—Conservation of Natural Resources	2	E. E. 230—Heat Power Engineering	3
Math. 112—Descriptive Astronomy	3	Geog. 127—Rocks and Minerals	3

Sanitary Engineering Option

Chem. 105—Qualitative Analysis	3	Chem. 109—Quantitative Analysis	4
C. E. 144—Water Supply	2	Chem. 115—Organic Chemistry	3
Zool. 141—Elementary Bacteriology	3		

Structural Engineering Option

C. E. 227—Adv. Structural Analysis	3	C. E. 228—Adv. Structural Analysis	2
Math. 215—Differential Equations	3	E. E. 202—Applied Mechanics	3
		Math. 204—Adv. Calculus	3

Transportation Engineering Option

Ec. 205—Transportation	3	Ec. 206—Transportation Problems	2
Ec. 215—Public Finance	2		

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING. It is the aim of the Department of Electrical Engineering to provide the background of general information and basic knowledge of principles which enable the student to analyze situations and to think intelligently and effectively in the field. The curriculum to be pursued has grown out of the belief that these are the most essential foundation elements for the various specialized fields, as well as for early advancement in practical electrical engineering.

Freshman Year

See courses given in first paragraph of Curricula In Engineering.

Sophomore Year

C. E. 105—Descriptive Geometry	3	C. E. 110—Plane Surveying	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Ind. Arts 121—Pattern, Forge, and Foundry	2	Ind. Arts 126—Shop Engineering	2
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Physics 113—General Physics	4	Physics 114—General Physics	4
P. W. 101—Sports or Mil. Sc. 101—Basic Infantry	1	P. W. 102—Sports or Mil. Sc. 102—Basic Infantry	1
Elective	2	Dr. Art 3—Public Speaking	2
	19		19

Junior Year			
First Semester		Second Semester	
	Hours		Hours
C. E. 121—Applied Mechanics	3	C. E. 124—Strength of Materials	3
E. E. 143—Electrical Engineering	4	E. E. 144—Electrical Engineering	4
E. E. 145—Dynamo and Measurements	3	E. E. 146—Dynamo and Measurements	3
Laboratory	3	Laboratory	3
E. E. 149—Electrical Measurements	2	E. E. 150—Electrical Measurements	2
Theory	2	Theory	2
E. E. 229—Engineering Thermodynamics*	3	E. E. 230—Heat Power Engineering*	3
Math. 215—Differential Equations	3	E. E. 202—Applied Mechanics	3
	18		18
Senior Year			
E. E. 203—Communication Engineering	4	E. E. 204—Communication Engineering	4
and Adv. Circuit Analysis	4	and Adv. Circuit Analysis	4
E. E. 243—Electrical Engineering	2	E. E. 244—Electrical Engineering	2
E. E. 245—Electrical Engineering Lab.	1	E. E. 246—Electrical Engineering Lab.	1
E. E. 291—Seminar in Electrical	1	E. E. 292—Seminar in Electrical	1
Engineering	1	Engineering	1
E. E. 137—Electron Tubes in Industry or	3	E. E. 248—Electrical Designs*	3
E. E. 235—Electrical Transmission	3	Eng. 114—Engineering English	2
of Power	3		
Elective	4-5	Elective	2-3
	18-19		18-19
Suggested Electives:			
Ec. 209—Public Utilities	3	Ec. 210—Public Utility Problems	2
E. E. 101—Principles of Radio	3	C. E. 126—Testing Laboratory	1
E. E. 125—Acoustics	3	C. E. 276—Contracts and Specifications ..	2
E. E. 133—Illuminating Engineering	2	C. E. 278—Engineering Costs	3
E. E. 211—Advanced Radio Laboratory	2	E. E. 106—Commercial Radio	2
E. E. 232—Thermodynamics Laboratory ..	1	Math. 204—Advanced Calculus	3
Physics 225—Adv. Physics Laboratory	2-4	Physics 226—Adv. Physics Laboratory	2-4

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING. Modern trends have demanded that the executives of industry be versed in the fundamentals of science as well as in the fundamentals of management. Industry now expects its administrators to be able to understand readily the problems of developing, installing, and maintaining the company's products, so that competition can be intelligently met and the business can be expanded. The application of engineering methods to business administration leads toward rapid and unbiased solutions of management and personnel problems and to economics in production.

To supply the demand for men capable of being developed into engineering executives, the College of Applied Science and the College of Commerce have cooperated in offering the curriculum in Industrial Engineering with options in management and marketing. The student, however, may elect other options, with the approval of the dean, which consider the fundamentals of advertising, accounting, law, or finance, or other subjects in the College of Fine Arts and the College of Arts and Sciences. The curriculum is at present tentative and under the constant supervision of a committee composed of faculty members from the College of Commerce and the College of Applied Science.

Freshman Year

See courses given in first paragraph of Curricula in Engineering.

Sophomore Year

C. E. 105—Descriptive Geometry	3	C. E. 74—Engineering Instruments	1
Dr. Art 3—Public Speaking	2	C. E. 110—Plane Surveying	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Ind. Arts 121—Pattern, Forge, and	2	Ind. Arts 126—Shop Engineering	2
Foundry	2		
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Physics 113—General Physics	4	Physics 114—General Physics	4
P. W. 101—Sports or	1	P. W. 102—Sports or	1
Mil. Sc. 101—Basic Infantry	1	Mil. Sc. 102—Basic Infantry	1
	19		18

*or electives.

Junior Year			
First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
C. E. 121—Applied Mechanics-Statics -----	3	C. E. 124—Strength of Materials -----	3
C. E. 123—Materials of Construction -----	2	C. E. 126—Testing Laboratory -----	1
E. E. 101—Elementary Radio -----	3	E. E. 202—Applied Mechanics-Kinematics -----	3
E. E. 127—Electrical Engineering -----	3	Ec. 235—Labor Relations -----	3
Mkt. 155—Marketing Principles -----	3	Eng. 114—Engineering English -----	2
		Fin. 121—Business Finance -----	3
	17		18
Senior Year			
E. E. 137—Electron Tubes in Industry -----	3	B. Mgt. 211—Industrial Management -----	3
E. E. 229—Thermodynamics -----	3	E. E. 230—Heat Power Engineering -----	3
B. Law 155—Business Law -----	3	Mkt. 226—Industrial Purchasing and Industrial Marketing -----	3
Stat. 155—Business Statistics -----	2	Stat. 156—Business Statistics -----	2
Electives -----	6-8	Electives -----	6-8
	17-19		17-19
Management Option			
Acct. 125—Intermediate Accounting -----	3	Acct. 224—Standard Costs and Budgets -----	3
Acct. 175—Cost Accounting -----	3	B. Law 175—Government and Business -----	2
Stat. 217—Statistical Control of Internal Business Operations -----	2	Ec. 212—Administration of Personnel -----	3
		Ec. 238—Labor Legislation -----	3
Marketing Option			
Adv. 155—Advertising Principles -----	3	B. Law 175—Government and Business -----	2
B. Law 185—Law of Marketing -----	2	H. Ec. 256—Economics of Consumption -----	3
Mkt. 205—Economics of Fashion -----	3	Mkt. 158—Marketing Problems -----	3
Stat. 241—Business Cycles -----	3	Mkt. 171—Principles of Personal Selling -----	2
		Mkt. 176—Sales Management -----	3

BACHELOR OF SCIENCE IN HOME ECONOMICS. The School of Home Economics attempts to integrate art and science for the improvement of home and family life and to provide the means of economic independence in occupations related to activities of the home. The home economics curricula are planned: (1) To develop an appreciation and understanding of the activities and the relationships of family life. (2) To equip women for the efficient and successful administration of a home. The Home Management House offers opportunity for practical managerial experience in home making and for observation in the nursery school which is conducted for the children of the community. (3) To afford training in vocations such as the directing of food service in hospitals, hotels, tea rooms, cafeterias, or college residence halls; the planning and directing of commercial food work, experimental cookery, and food research; the supervision of children in nursery schools, institutions, and social welfare organizations; the writing and editing of material for women's magazines; the designing, buying, advertising, and retailing of clothing and home furnishings. Students have opportunity for practical participation in the local industries, welfare agencies, food units of the college residence halls, and school cafeterias. (4) To provide training in home economics for those who wish to teach in elementary schools, junior or senior high schools, vocational schools, and adult education classes. In addition to participation in the home economics activities of the Athens High School and The Plains High School, seniors in home economics may participate in the vocational education program of the schools and qualify for certification to teach in vocational schools.

The following curricula are organized to give students an opportunity to prepare for the general course in home economics or for a particular field

in home economics leading to the degree of Bachelor of Science in Home Economics:

Freshman Year

The University College program should include:

First Semester	Hours	Second Semester	Hours
H. Ec. 1—Clothing Selection and Construction* or		H. Ec. 21—Foods and Nutrition* or	
H. Ec. 51—Orientation in Home Economics* -----	3-2	H. Ec. 22—Economics of Foods* or	
Psy. 1—General Psychology* -----	3	H. Ec. 32—Household Equipment -----	3
Zool. 3—General Zoology** or		Psy. 1—General Psychology* -----	3
Chem. 1—General Chemistry -----	3-4	Zool. 4—General Zoology** or	
		Chem. 2—General Chemistry -----	3-4

Sophomore Year

H. Ec. 1—Clothing Selection and Construction† or		H. Ec. 32—Household Equipment† -----	3
H. Ec. 4—Clothing Appreciation† -----	3	H. Ec. 51—Orientation in Home Economics† -----	2
H. Ec. 21—Foods and Nutrition† or		H. Ec. 110—Textiles -----	3
H. Ec. 22—Economics of Foods† -----	3	P. A. Arts 102—Applied Design -----	3
P. A. Arts 31—Design and Composition -----	2	P. W. 102-116—Physical Welfare -----	1
P. W. 101-115—Physical Welfare -----	1	Electives -----	4-9
Soc. 101—Principles of Sociology -----	3		
Electives -----	4-10		
	16		16

Junior Year

H. Ec. 231—Home Planning or		H. Ec. 211, 212, 215, 216, or 218	
H. Ec. 251—Home Management* -----	3-2	Clothing or	
H. Ec. 253—Home Management Lab.* -----	2	H. Ec. 251—Home Management* -----	3-2
H. Ec. 271—Child Development -----	2	H. Ec. 253—Home Management Lab.* -----	2
H. Ec. 101—Principles of Economics -----	3	H. Ec. 272—Child Development -----	2
H. Ec. 225—Dietetics -----	3	Zool. 141—Elementary Bacteriology -----	3
Electives -----	3-4	Electives -----	6-7
	15		15

Senior Year

H. Ec. 227—Quantity Cookery -----	3	H. Ec. 222—Experimental Cookery -----	3
H. Ec. 256—Economics of Consumption -----	3	H. Ec. 273—Family Relationships -----	3
Electives -----	9	Electives -----	8-10
	15		15

Options: Home Economics and Commerce—select 12 semester hours in the College of Commerce.

Home Economics and Education—see requirements for certification on page 50.

Home Economics and Journalism—select 12 semester hours in the School of Journalism.

Home Economics and Social Welfare—select 16 semester hours in the Department of Sociology.

Curriculum for specialization in family relationships and child development:

Hours		Hours	
H. Ec. 1—Clothing Selection and Construction -----	3	H. Ec. 241—Nutrition Work with Children -----	2
H. Ec. 21—Foods and Nutrition or -----		H. Ec. 251—Home Management -----	2
H. Ec. 22—Economics of Foods -----	3	H. Ec. 253—Home Management Lab. -----	2
H. Ec. 32—Household Equipment -----	3	H. Ec. 256—Economics of Consumption -----	3
H. Ec. 51—Orientation Course in Home Economics -----	2	H. Ec. 271, 272—Child Development -----	4
H. Ec. 225—Dietetics -----	3	H. Ec. 273—Family Relationships -----	3
		H. Ec. 200—Studies in Home Economics -----	3
Supplementary courses:			
Chem.—Elective -----	8	Soc.—Elective -----	3
Dr. Art 15—Voice and Diction -----	2	Zool. 3-4—General Zoology -----	6
Ec.—Elective -----	3	Zool. 141—Elementary Bacteriology -----	3
Psy. 3—Child Psychology -----	3		

Options: Supervision of Children in Institutions—Ed. 1, 2, 101, 171, 172.

Child Welfare—Soc. 208, 212, 222, 224, 239, 240.

*May be taken either semester.

**Students who have had chemistry in high school elect Zool. 3-4.

†Not required if taken in University College.

Curriculum for specialization in foods and nutrition:

	Hours		Hours
H. Ec. 21—Foods and Nutrition	3	H. Ec. 228—Recent Developments in Foods and Nutrition or	
H. Ec. 22—Economics of Foods	3	H. Ec. 200—Studies in Home Economics	3
H. Ec. 51—Orientation Course	2	H. Ec. 251—Home Management	2
H. Ec. 110—Textiles	3	H. Ec. 253—Home Management Lab.	2
H. Ec. 222—Experimental Cookery	3	H. Ec. 256—Economics of Consumption	3
H. Ec. 225—Dietetics	3	H. Ec. 271, 272—Child Development	4
H. Ec. 227—Quantity Cookery	3		
H. Ec. 229—Nutrition in Disease or			
H. Ec. 241—Nutrition Work with Children	2		

Supplementary courses:

Chem.—Electives	8	Soc.—Elective	3
Dr. Art 15—Voice and Diction	2	Zool. 3-4—General Zoology	6
Ec.—Elective	3	Zool. 141—Elementary Bacteriology	3
Psy.—Elective	6		

Options: Institutional Management—6 semester hours in accounting, H. Ec. 242, 248.
Hospital Dietetics—Chem. 105 or 115, 122, H. Ec. 229 or 241, 242, 248.

Curriculum for specialization in house and its equipment:

H. Ec. 1—Clothing Selection and Construction or		H. Ec. 234—Household Engineering	3
H. Ec. 110—Textiles	3	H. Ec. 238—Housing and Community Welfare	3
H. Ec. 21—Foods and Nutrition or		H. Ec. 251—Home Management	2
H. Ec. 22—Economics of Foods	3	H. Ec. 253—Home Management Lab.	2
H. Ec. 32—Household Equipment	3	H. Ec. 256—Economics of Consumption	3
H. Ec. 51—Orientation Course	2	H. Ec. 271, 272—Child Development	4
H. Ec. 231—Home Planning	3	H. Ec. 273—Family Relationships	3

Supplementary courses:

Chem.—Electives	8	Psy.—Electives	6
Dr. Art 15—Voice and Diction	2	Soc.—Elective	3
Ec.—Elective	3	Zool. 141—Elementary Bacteriology	3
Physics—Electives	6		

Options: Interior Decoration—C. E. 1-2, P. A. Arts 171-172, 213-214.

Curriculum for specialization in textiles and clothing:

H. Ec. 1—Clothing Selection and Construction	3	H. Ec. 216—Clothing Design and Construction	3
H. Ec. 32—Household Equipment	3	H. Ec. 218—Textile Analysis	3
H. Ec. 51—Orientation Course	2	H. Ec. 231—Home Planning	3
H. Ec. 110—Textiles	3	H. Ec. 251—Home Management	2
H. Ec. 211—Economics of Clothing	3	H. Ec. 253—Home Management Lab.	2
H. Ec. 212—Creative Textiles Prob.	2-4	H. Ec. 256—Economics of Consumption	3
H. Ec. 215—History of Costume and of Textiles	2		

Supplementary courses:

Chem.—Electives	8	P. A. Arts—Electives	10
Dr. Art 15—Voice and Diction	2	Psy.—Electives	3
Ec.—Elective	3	Soc.—Elective	3
Hist.—Electives	6	Zool. 141—Elementary Bacteriology	3

Options: Costume Design—P. A. Arts 71, 118, 137-138, 219.

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Music, the School of Painting and Allied Arts, and the School of Dramatic Art. The degrees offered are the Bachelor of Fine Arts in Music, in Painting and Allied Arts, and in Dramatic Art. The curricula of the three schools in this college are designed to provide for a broad cultural education in the fine arts and for specialized interests within the different schools.

When a major is selected in one of the three schools, the student is required to take a minor of approximately 16 semester hours in each of the other two schools. However, when necessary and with the permission of the dean or other administrative officer, 12 semester hours may be accepted as satisfying each minor requirement.

Students enrolled in other colleges may elect courses in this college or may complete the requirements for a major or minor in music, painting and allied arts, or in dramatic art.

Candidates for a degree in the College of Fine Arts complete a minimum of 124 semester hours and 124 scholastic points. These include the program of the University College, 4 semester hours of physical welfare or military training, and three years of work in the College of Fine Arts comprising approximately 94 semester hours.

BACHELOR OF FINE ARTS IN MUSIC. The School of Music makes provisions for individual study in all branches of vocal and instrumental music with specific courses in basic principles. Opportunities for individual participation in student recitals are provided, and also ensemble experience in groups such as the University Choir, the glee clubs, the quartet, band, and orchestra.

The University College program should include:		Hours
	Applied Music	2
	Mus. 3-4—Ear Training and Sight Singing	4
Major requirements:	Applied Music	18
	Mus. 11-12—Music History	4
	Mus. 109-110—Ensemble	2
	Mus. 130—Ensemble Conducting	4
	Theory, including aural theory.....	28
Minor requirements:	Dramatic Art	12-16
	Painting and Allied Arts.....	12-16
Other requirements:	English, beyond the University College requirement	6

School Music Major. Students who desire to specialize in school music are given the opportunity of preparing for general supervision with emphasis on voice and its allied activities such as choral and glee club, or on instrumental supervision with emphasis on a major or minor instrument and the allied activities of orchestra and class instrumental instruction. The specific requirements are given in the College of Education and lead to the degree of Bachelor of Science in Education.

BACHELOR OF FINE ARTS IN PAINTING AND ALLIED ARTS. The School of Painting and Allied Arts provides curricula for those interested in either general or specific training. Basic principles in both theory and practice are emphasized. Student exhibitions and participation in theatrical productions allow for expression, and class instruction is supplemented by the professional work shown in the university gallery.

The major requirements amount to at least 32 semester hours in painting and allied arts. The minor requirements include 12 to 16 semester hours in music and 12 to 16 semester hours in dramatic art. The following courses are suggested to fulfill major requirements for students interested in specialization in the various phases of painting and allied arts.

Architecture			
	Hours		Hours
21-22—History of the Space Arts.....	6	155-156—Intermediate Architectural Design	6
45, 46—Methods in Representation	4	175—American Architecture	2
77—Principles of Photography	1-3	204—History of Italian Renaissance Architecture and Sculpture	3
104—Elementary Architectural Drawing and Design	2	255-256—Adv. Architectural Design	12
Additional requirements: C. E. 110, 139, 276; E. E. 133; office practice, 8 weeks; construction, 8 weeks.			

Commercial Design			
11-12—Theory of Design	6	147—Principles of the Space Arts in Advertising	2
21-22—History of the Space Arts.....	6	208—Prints	3
45—Methods in Representation	2	217-218—Poster Advertising and Industrial Styling	6
77—Principles of Photography	1-3		
118—Water Color	2		
Suggested electives: Adv. 155, 176; Ind. Arts 141-142.			

Constructive Design			
11-12—Theory of Design	6	104—Elementary Architectural Drawing and Design	2
21-22—History of the Space Arts.....	6	131—Modeling and Sculpture	2
77—Principles of Photography	1-3	152—Bookbinding	2
102—Applied Design	3	216—Advanced Pottery	2
103—Practical Design	2	225—Adv. Jewelry and Metal Work.....	2
Suggested electives: Dr. Art 121, 140; Ind. Arts 1-2, 6, 8, 105, 109, 116.			

Costume Design			
11-12—Theory of Design	6	114—Textile Design	3
21-22—History of the Space Arts.....	6	117—Drawing	3
31—Design and Composition	2	219-220—Advanced Water Color	4
71—Sketching	2	221—Advanced Costume Design	2
77—Principles of Photography	1-3		
Suggested electives: Dr. Art 106; H. Ec. 1, 110, 211, 212, 215, 216.			

Decorative Design			
11-12—Theory of Design	6	114—Textile Design	3
21-22—History of the Space Arts.....	6	118—Water Color	2
77—Principles of Photography	1-3	175—American Architecture	2
104—Elementary Architectural Drawing and Design	2	213-214—Advanced House Decoration.....	6
Suggested electives: H. Ec. 32, 231; P. A. Arts 121.			

History of the Space Arts			
7—Introduction to the Fine Arts.....	2	203—History of Italian Renaissance Painting	3
21-22—History of the Space Arts.....	6	204—History of Italian Renaissance Architecture and Sculpture	3
77—Principles of Photography	1-3	390—Seminar in History of the Space Arts	2-5
175—American Architecture	2		
176—Modern Painting	2		
Suggested electives: Archaeol. 101, 202; Hist. 1, 2, 110, 111, 112, 113.			

Painting			
7—Introduction to the Fine Arts.....	2	77-78—Principles of Photography.....	4-6
11-12—Theory of Design	6	205-206—Painting	6
21-22—History of the Space Arts.....	6		
Suggested electives: courses in the natural sciences.			

Photography

	Hours		Hours
11-12—Theory of Design	6	121—Representation	3
21-22—History of the Space Arts.....	6	143-144—Practical Photography	6
45, 46—Methods in Representation	4	271—Adv. Practical Photography	5
77-78—Principles of Photography.....	4-6		

Suggested electives: Chem. 109-110; E. E. 133.

Major for Other Degrees. A student who desires the degree of Bachelor of Arts or the degree of Bachelor of Science in Education may major or minor in the School of Painting and Allied Arts and receive the degree desired by complying with the requirements of the college that grants the degree. The College of Education has outlined specific requirements which prepare the student for teaching or supervising in both elementary and high schools.

BACHELOR OF FINE ARTS IN DRAMATIC ART. Courses offered by the School of Dramatic Art are classified as follows: (a) dramatic production, (b) debate and oratory, and (c) correction and interpretation. Students majoring in the School of Dramatic Art are expected to emphasize either a and c or b and c in planning their courses of study. However, efforts are made to adapt the curriculum to the needs of the students, and the program aims at flexibility rather than at unswerving rigidity.

The University College program should include:

	Hours
Dr. Art 1—Speech Survey	1
Major requirements: Dramatic Production and Correction and Interpretation	34
or Debate and Oratory and Correction and Interpretation	34
Minor requirements: Music	12-16
Painting and Allied Arts.....	12-16
Other requirements: English, beyond the University College requirement	12

Students may fulfill the requirements for a major in dramatic art and the general requirements given in the College of Education for the degree of Bachelor of Science in Education and qualify to teach in the elementary and high schools.

THE GRADUATE COLLEGE

Degrees. The Graduate College offers work in academic and professional fields and confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts. In addition to the curricula offered in the academic and professional fields, the college offers the degree of Master of Arts in supervision and guidance of student life, a course designed for advisers of girls and deans of women.

Admission. The Graduate College is open to students who hold a bachelor's degree from an accredited college or university. Application for admission should be made on a blank obtainable from the office of the registrar and must be accompanied by an official transcript of the applicant's college record, except in the case of a graduate of Ohio University. These documents should be filed with the registrar at least a month before the opening of the term in which the applicant begins his studies. The student who qualifies for admission receives a permit to register and a copy of his undergraduate record. He then confers with the dean of the Graduate College who counsels with him regarding his plans for graduate study and appoints faculty advisers in the major and minor fields. The student's outline of graduate study is made by the adviser in conference with the student. A student may be registered in the Graduate College without becoming a candidate for a graduate degree. Therefore, admission to the Graduate College does not of itself constitute admission to candidacy for a degree.

A student who is qualified to enter the Graduate College but who pursues courses with no regard to a major or a minor and with no thought of qualifying for a master's degree is classified as a special student.

Credit and Residence. At least 32 semester hours of credit are required for the master's degree. A maximum of 8 semester hours of credit is accepted by transfer from approved institutions which offer the master's degree. Credit for courses taken by correspondence is not accepted toward the degree. A maximum of 6 semester hours taken in extension classes is accepted toward the degree, provided that the courses are conducted by instructors who regularly teach them on the campus. A graduate student who is employed on full time is limited to three semester hours in a semester or a summer session. Credit is not allowed for a graduate course unless all of the work of the course, including the final examination, is completed and the final grade reported to the office of the registrar within one year after the official ending of the course.

Only work of high quality is accepted for graduate credit. The minimum standard acceptable is an average grade of B with no grade below C, and not more than twenty per cent of the work with a grade of C.

After securing a bachelor's degree, an adequately prepared student should be able to complete the work for the master's degree in one year of two semesters, in four eight-week summer sessions, or in three eleven-week summer sessions. A transfer student is required to have a minimum residence at Ohio University of one semester and one eight-week summer session, or three eight-week summer sessions, or at least twenty-four weeks. A student who takes courses in extension classes for graduate credit is required to have a minimum residence at Ohio University of one semester and an

eight-week summer session, or three eight-week summer sessions and a three-week post session, or at least twenty-six weeks.

The maximum time allowed between the date when the student is admitted to the Graduate College and begins graduate study and the date when the requirements for the degree are completed is six years. Students who do not complete their requirements for the degree within the six-year period are obliged to have their graduate outlines reviewed and revised in the light of current catalog requirements.

Courses for Graduate Credit. Credit toward a graduate degree is given for the completion of courses designed for graduate students (numbered 301-399) and courses designed for advanced undergraduates and graduates (numbered 201-299), provided that the courses are included in the student's program of study.

Fees. The fees for graduate students are the same as those for undergraduates. See FEES AND DEPOSITS for a full statement of fees.

Program of Study. The student's program of study is divided in most cases between subjects in the major field and subjects in the minor field. Since graduate work implies specialization, a minimum of 18 semester hours of undergraduate credit is presupposed before a student can pursue his major subject for graduate credit. Six to 12 semester hours in undergraduate preparation are usually sufficient to begin graduate work with a minor in a subject. The program in the major field varies from 12 to 20 semester hours exclusive of the thesis, for which from 4 to 8 semester hours are allowed. The minor field in such cases makes up the remainder of the 32 semester hours required for the degree, and is selected from one or two fields of instruction closely related to the major field. However, all of the work for the master's degree may be done in one school or field on recommendation of the adviser and with the approval of the Graduate Council.

Admission to Candidacy. In order to be admitted to candidacy for the master's degree, a student must show his ability and fitness to pursue graduate work in his chosen field. This may be done by completing with satisfactory grades a part of the program of graduate study as outlined. The further conditions of admission to candidacy are a program of graduate study and a thesis subject, acceptable to the major adviser and approved by the dean and the Graduate Council. Application for candidacy should be made on a form obtainable at the office of the dean and on a date not later than four months before the degree is to be conferred.

Examination and Thesis. As a partial fulfillment of the requirements for the master's degree, each candidate shall pass creditably two examinations, one oral and one written, and shall submit a satisfactory thesis upon a subject approved by the adviser and the Graduate Council. The written examination is of approximately four hours duration, the time being divided between the subjects of the major and the minor fields. The oral examination, approximately two hours in length, is conducted by a committee, appointed by the dean, consisting of a representative of the Graduate Council and members of the staff of the school or department in which the candidate has done his work.

The candidate prepares his thesis under the direction of his major adviser on a subject in the field of his major work. The thesis provides an opportunity for the student to formulate and express the results of his research

and study. The thesis may vary in character from an extended essay representing critical reading, independent study, and the assimilation and interpretation of a considerable body of facts, to an account, sometimes more brief, describing a research project which makes some contribution to knowledge. For students who desire to avail themselves of the instruction, a course on thesis writing is offered by the Department of English.

The candidate submits to the chairman of his examining committee, not later than one week before the date of his oral examination, three copies of his thesis typewritten in accordance with a format on file in the office of the dean. After the thesis is approved and not later than five days before commencement, the candidate deposits three copies, bound according to specifications, in the office of the dean. Two copies will be deposited in the university library and one copy is for the school or department in which the work has been done.

Graduate Fellowships and Scholarships

Ohio University offers twelve to fifteen graduate teaching fellowships to properly qualified students who have received baccalaureate degrees from approved institutions. A fellowship carries an annual stipend of \$300, with exemption from the general registration fee. There is no tuition fee. A teaching fellow is required to give from one third to one half of his time to teaching or laboratory supervision, or both, in the department of his major work, and is expected to carry one half to two thirds of the normal load of graduate work.

A limited number of graduate scholarships are offered to qualified students who have received baccalaureate degrees from approved institutions, provided that there are fewer than fifteen acceptable applicants for graduate teaching fellowships. A scholarship carries an annual stipend of \$100, with exemption from the general registration fee. Graduate scholars are expected to devote all of their time to graduate work.

Graduate fellowships and scholarships are usually available to students in the following fields: botany, chemistry, classical languages, commerce, dramatic art, economics, education, English, government, history, home economics, industrial arts, journalism, mathematics, modern foreign languages, music, painting and allied arts, physics, psychology, sociology, zoology, and supervision and guidance of student life

Special Appointments for Women. Two to five positions are open annually for graduate student deans. The appointees receive a stipend of \$300 each, with exemption from the general registration fee, and are expected to give one half of their time assisting the dean of women and to carry one half of the normal load of graduate work. Under this plan two academic years are required to complete the work for the master's degree. Applicants should have completed not fewer than 18 semester hours in the social sciences. Application may be made directly to the dean of women.

Two or three appointments as graduate student dietitians are open annually to college graduates who have majored in home economics. These positions are intended primarily for persons interested in institutional management, but such assistants may major in any field. The stipend consists of board, room, and \$385, with exemption from the general registration fee. The student is expected to give about six hours of service daily and to carry one half of the normal load of graduate work. Application may be made directly to the director of the School of Home Economics.

PHYSICAL WELFARE

The Department of Physical Welfare is organized into two coordinate divisions, one for men and one for women. The whole program in physical welfare has been developed with the view of providing health protection and physical activity for the entire student body. The department maintains two gymnasiums and offers facilities, equipment, and guidance for physical expression in sports and hobby classes, rhythemics, swimming, and intramural and intercollegiate athletics. All students registering in the university are given health and physical examinations.

The required two-year program, 4 semester hours, of physical activities for men who do not elect military science and tactics includes attendance in a class in hygiene one period a week during the freshman year and participation in at least four sports. The required two-year program, 4 semester hours, for women is on an elective basis; the activities offered are grouped under sports, rhythemics, and swimming. Students reporting for the required courses wear the uniform prescribed by the division. Men and women students who for any reason are unable to participate in the regular activity classes are given individual instruction in special classes.

The department offers a recreational hobby program designed to meet the interests and needs of all students, whether they are proficient or inexperienced in sports. Instruction is given regularly to voluntary groups and classes in the activities desired.

Students who wish to major in the Department of Physical Welfare may apply for the degree of Bachelor of Science, the degree of Bachelor of Arts, or the degree of Bachelor of Science in Education by fulfilling the requirements of the college offering the degree. All majors are required to purchase a uniform as prescribed by the department.

The following courses constitute a major in physical welfare.

Men

Freshman Year

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
P. W. 1—Sports	1	P. W. 2—Sports	1
P. W. 22—Personal and Public Health ..	3	Zool. 4—General Zoology	3
Zool. 3—General Zoology	3		

Sophomore Year

P. W. 121—Physical Activities	2	P. W. 122—Physical Activities	2
P. W. 125—Scouting	1	P. W. 152—Kinesiology	2
Zool. 115—Elements of Anatomy	3	Ed. 167h—Teaching of Health	2

Junior Year

P. W. 123—Physical Activities	1	P. W. 124—Physical Activities	1
P. W. 127—First Aid	2	P. W. 153—Nature and Function of Play ..	2
P. W. 133—Theory and Practice of Adapted Activities	2	Ed. 167d—Coaching of Baseball	1
Ed. 167f—Coaching of Football	2	Ed. 167e—Coaching of Basketball	2
		Ed. 167t—Coaching of Track	1

Senior Year

P. W. 171—Physical Activities	1	P. W. 204—Principles of Physical Welfare ..	2
P. W. 209—Physical Activities Tests	2	P. W. 206—Organization and Adminis- tration	2
P. W. 252—School Health Program	3	P. W. 250—Community Recreation	2
Zool. 125—Elementary Physiology	4		

Women

Freshman Year

The University College program should include the following:

First Semester		Hours	Second Semester		Hours
P. W. 1, 6 or 7—Physical Welfare	-----	1	P. W. 2, 4 or 8—Physical Welfare	-----	1
P. W. 22—Personal and Public Health	-----	3	Zool. 4—General Zoology	-----	3
Zool. 3—General Zoology	-----	3			

Sophomore Year

P. W. 121—Physical Activities	-----	2	P. W. 122—Physical Activities	-----	2
Zool. 115—Elements of Anatomy	-----	3	P. W. 152—Kinesiology	-----	2
			Ed. 167h—Teaching of Health	-----	2

Junior Year

Ed. 167a—Teaching of Coaching	-----	2	Ed. 167b—Teaching of Coaching	-----	2
P. W. 127—First Aid	-----	2	P. W. 132—Physical Welfare Practice	---	1
P. W. 131—Mass Games	-----	1	P. W. 133—Theory of Adapted Activities	---	2
P. W. 252—School Health Service	-----	3			

Senior Year

P. W. 171—Organization of Physical Activities	-----	2	P. W. 172—Organization of Physical Activities	-----	2
Zool. 125—Elementary Physiology	-----	4	P. W. 204—Principles of Physical Welfare	-----	2
			P. W. 206—Organization and Administration	-----	2
			P. W. 250—Community Recreation	-----	2

University Health Service. The university maintains a health service for the students of the university. A health fee of \$2 a semester provides for each student a complete health examination each year with proper card records and check-up examinations as required.

The university medical officer makes diagnostic visits to students, especially in cases suspected of an infectious or contagious character. The infirmary provides clinical service for minor ailments of students presenting themselves at the hours specified. Medical care is secured by the students through physicians of their own choice at their own expense. The university medical officer is not available for such service.

Students desiring limited hospitalization at the university infirmary may, if bed service is available, secure such service by the payment of an additional fee. Because of the limited bed facilities at the infirmary, the university cannot guarantee hospitalization for students. A well equipped local hospital is available to students at their own expense.

Vaccination. New students are accepted for admission to Ohio University with the understanding that they agree to the following smallpox vaccination requirements: Not later than four weeks after the day of registration every new student must file with the medical officer of the university a certificate giving exact date of the vaccination and showing acceptable vaccination within seven years. The certificate must be signed by the vaccinator who must be a duly licensed and practicing physician.

Students are advised to comply with this requirement before coming to the university. A blank certificate is sent to the applicant after he has been admitted to the university or may be obtained by writing to the registrar.

MILITARY SCIENCE AND TACTICS

The Reserve Officers' Training Corps was established under the National Defense Act of June 4, 1920. The Board of Trustees of Ohio University in 1935 entered into an agreement with the Federal government for the establishment of a voluntary R. O. T. C. unit. Under this agreement the university maintains an elective course of military training for men students who are physically qualified.

A student has the choice between two years of military training and the required first and second year courses in the Department of Physical Welfare. Those who complete the four years of military training are eligible for a commission in the Officers' Reserve Corps of the United States Army. The first two years carry 1 semester hour of credit each semester; and the last two years, 3 semester hours each semester.

Under the terms of the agreement with the Federal government, the two year course once entered upon becomes a prerequisite for graduation. In an exceptional case and for sufficient reason a student may, upon recommendation of the professor of military science and tactics, be discharged by the president of the university from the Reserve Officers' Training Corps and from the necessity of completing the course as a prerequisite for graduation.

All necessary training equipment and the principal articles of the uniform are issued to basic course students by the Federal government without cost. Articles so issued remain the property of the government and must be returned. A personal equipment fee of \$6, which is assessed at the beginning of the first semester for the year's course, is required of students enrolling for Mil. Sc. 1, Basic Infantry, to cover cost of essential articles of uniform not issued free. Articles so purchased become the property of the student and enable him to make a substantial saving in the cost of ordinary clothing.

Upon entering the advanced course the student receives a money allowance for uniform which last year, the first year, amounted to \$29. Upon entering the second year he receives a uniform maintenance allowance which last year amounted to \$7. In addition, "commutation of rations" is paid the advanced course student quarterly. Last year this amounted to \$23 each quarter.

In addition to the courses pursued at the university, all students who satisfactorily complete the first year of the advanced course may attend the six weeks summer training camp, generally held at Fort Knox, Kentucky, for the Reserve Officers' Training Corps. This attendance involves no expense to the student. On the contrary, he is provided with uniform, equipment, rations, and shelter, and is paid for transportation to the camp and return to his home at a rate which last year was five cents a mile. He is also paid seventy cents a day while attending camp. The university allows 3 semester hours of credit for the camp attendance.

After the completion of the second year basic course, applicants for the advanced course, within a quota allotted by the War Department, are carefully selected by the professor of military science and tactics on the basis of military and scholastic merit. A general scholastic average of C (1.0) is required for selection.

EXTENSION DIVISION

The Extension Division offers work in the form of extension classes and correspondence study.

Extension Classes. Any community in which a group of persons agrees upon a course which it desires to study will be supplied with an instructor from the university faculty. The size of the group necessary to secure an instructor depends upon the distance of the community from the campus. The division provides the regular instructor of the course or a member of the department in which the course is offered. The instructor meets the class once a week for a class session, the number and length of which is determined by the amount of credit allowed for the course.

Correspondence Study. Correspondence study extends the privilege of university training even more widely than the extension classes. A wide variety of subjects in thirty departments is offered and is taught by members of the regular faculty. The courses appeal to teachers, business men and women, ministers, social workers, and others who wish to engage in systematic study during their spare time. Registration for a correspondence study course can be made at any time.

Admission. A student who has been enrolled in any division of the university and who is in good standing may register in an extension class or in correspondence study. A student who has not previously enrolled at Ohio University is required to present to the registrar of the university an application for admission and the required credentials. A student who intends to become a candidate for graduation at Ohio University must present a transcript of all work done at other colleges and universities. A student who is not planning to graduate from Ohio University is required to present a statement of good standing, honorable dismissal, or graduation from the last school attended. A person who has never enrolled in any college or university must present a transcript of high school credits. A person who has not completed the minimum entrance requirements but is at least twenty-one years old may enroll for any course for which his application qualifies him.

Credit. In extension classes and in correspondence study a student may earn as much as 40 semester hours toward the requirements for a bachelor's degree, or 18 semester hours toward a two-year diploma.

A graduate student may earn, under approved conditions, 6 semester hours of extension class credit to apply toward a master's degree.

Persons who are employed are limited to a registration of 6 semester hours each semester.

Recognition. In 1931 Ohio University was admitted to membership in the National University Extension Association. This association is made up of about fifty of the recognized colleges and universities throughout the country which maintain divisions of university extension. The N. U. E. A. is not an accrediting body; it merely promotes standards and recognizes them by strict procedures for the admission of colleges and universities to membership.

Blanks. Applications for admission may be secured from the office of the registrar or from the Extension Division. Registration blanks for correspondence study may be secured from the office of the Extension Division.

Registration blanks for the extension classes are obtained from the instructor of the class.

Persons interested in any of the opportunities offered by the division may obtain additional information by writing to The Extension Division, Ohio University, Athens, Ohio.

THE SESSIONS

Semester Sessions. The school year of the university is composed of two semesters and two summer sessions.

A semester is approximately eighteen weeks in length; the first semester begins in September and the second in February. A student usually carries a student load of sixteen semester hours for a semester.

Saturday and evening classes are also offered each semester. A schedule of classes, which covers academic and professional courses, is posted or may be obtained from the registrar's office. Students register for the classes during the first week of the semester, and a late registration penalty of \$1 is assessed for each week late. The Saturday and evening class students are admitted in accordance with the university admission regulations. A student who is employed full time is limited to six semester hours each semester; a graduate student is limited to three semester hours. A student may enroll for a Saturday or evening class and for an extension group class or a correspondence study course. Any combination of these opportunities for study limits a person employed full time to six semester hours for a semester. The regulations which govern other phases of the work are, on the whole, the same as for the students enrolled for the regular day classes.

Summer Sessions. The summer sessions which begin in June, one week after June commencement, provide additional educational opportunities for students desiring to lessen the time for securing a degree, for those desiring to supplement their degree requirements with additional courses, for those desiring to make up failures and deficiencies, and for those who are able to attend only during the summer period.

The first summer session continues for eight weeks, during which time the use of a six-day-a-week schedule enables the student to complete the equivalent of half a semester's work. The quality of the offerings and the range of subjects offered in the summer session are the same as in the semester.

The post summer session is a continuation of the summer session. This session of three weeks' duration enables a student to complete from one to three semester hours. The post summer session was provided especially to assist the student who finds himself just a few hours short of meeting a particular requirement. The subjects offered depend largely upon the demands of the students.

Information may be obtained in the summer sessions bulletin and from the director of the summer sessions.

COURSES OF INSTRUCTION

EXPLANATION

The courses of instruction are arranged in numerical order by fields of instruction.

The course numbers indicate for which classification of students the course is designed, as follows:

- 1- 99 for University College students
- 100-199 for undergraduate students
- 200-299 for advanced undergraduate and graduate students
- 300-399 for graduate students.

An odd number indicates that a course is given in the first semester or in both first and second semesters. An even number indicates that a course is given in the second semester, with the exception of the numbers used for the teaching technique courses.

Two numbers at the beginning of a course indicate a year course. A hyphen between the numbers indicates that the course is a continuous year course, that the first semester is a prerequisite for the second. A comma between the numbers indicates that although the course is a year course the first semester need not be a prerequisite for the second semester.

A course that is offered during the summer session only or that is not offered during the school year of 1938-1939 is indicated by a statement in parentheses.

A lecture course with a credit of three semester hours has three lectures or recitations a week for a semester. When a course consists of lecture and laboratory periods, the number of both are indicated.

When a course requires a fee, the amount is stated in the description of the course. The fee is determined by the number of semester hours of credit; \$1 is assessed for each semester hour. For a year course the fee is stated for a semester.

A prerequisite is usually indicated by the number of the course or the number of semester hours required. When the course number or the number of semester hours refers to another field of instruction, the field is named.

Credit for a course is indicated by a number in parentheses. In a year course, the number refers to credit for a semester. One semester hour, (1), is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. A course carrying a variable credit (1-4) indicates the minimum and maximum amount of credit allowed for the course. A student may enroll for the course a number of times provided the total registration for the course does not exceed the maximum credit. Exception: In Applied Music the variable credit refers to the amount of credit for which a student may enroll during a semester or summer session. A number in parentheses when used in the curricula and in the major requirements likewise denotes semester hours of credit.

The instructors of a course are arranged according to priority of service within the respective ranks.

COURSES OF INSTRUCTION

ACCOUNTING

(See Commerce)

ADVERTISING

(See Commerce)

AGRICULTURE

The major requirement in agriculture for the A.B. or B.S. degree is a minimum of 36 semester hours distributed as follows: Ag. 1, 3, 4, 102 (6); Ag. 103, 109, 116, 121 (9); Ag. electives, or Chem. 1-2 or 3-4, or Bot. 1, 2 or 101, 102 (3-8); Ag. 104, 127, 135, 141, 142 (9); Ag. 111, 131, 132, 143, 144 (9-10).

1. General Agriculture. Planned to meet the needs of those preparing to teach agriculture and of those interested in the practical applications of the problems of general agriculture. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

3, 4. Forestry. Ways and means of identification and classification of trees and shrubs. A study of vernalion, periods of blooming, and seed germination. Fee, \$2. (2) Copeland.

102. Vegetable Gardening. Classification, description, use, culture, grading, storing, and marketing of vegetable crops. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

103. Fruit Growing. The selection of an orchard location and the study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, judging, storing, and marketing of tree fruits. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

104. Small Fruits. A study of fruits commonly grown in Ohio. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

109. Ornamental Horticulture. The principles of landscape gardening as applied to home grounds and civic improvement, and the culture of ornamental flowers and shrubs. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

111. Rural Economics. A study of theories relating to farm problems of wages, rent, labor, land values, farm management, and marketing. (3) Copeland.

115. Soils and Fertilizers. (1939-1940) The origin, types, physical properties, and distribution of soils, and their relation to crop production. Stable manure, green manure, and fertilizers as used in the maintenance of soil fertility. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

116. Field Crops. (1939-1940) A general course in the principles of plant growth. Emphasis on the use of important cereal grass, forage, and root crops. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

121. Types and Breeds of Farm Animals. A study of types and breeds of farm animals: their history, development, breeding, handling, and important characteristics. Principles of judging. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

124. General Dairying. The fundamentals of milk production, handling, marketing, and the manufacture of products made from milk. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

127. Types, Breeds, and Management of Poultry. The origin and development of types and breeds, the general care and management of poultry, incubation, and the marketing of poultry products. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

131, 132. Floriculture and Greenhouse Management. A study of important cut-flower and pot-plant crops grown in greenhouses, the construction and management of greenhouses; flower store management and floral designing. 2 lec. and 2 lab. Fee, \$2. (2) Wiggin.

135. Farm Management. The application of problems of rent, wages, labor, land values, marketing, and various phases of farm efficiency. (3) Copeland.

141, 142. Evolution and Heredity. A consideration of the prominent theories relating to environment, evolution, and inheritance. (3) Copeland.

143, 144. Genetics. (1939-1940) Inheritance, environment, and other factors relating to variations, mutations, and changes leading to the origin of new races and varieties of plants or animals. (3) Copeland.

146. Eugenics. Problems of inheritance and environmental factors that relate to race betterment. (2) Copeland.

168a. Teaching of Agriculture. See Ed.—Teaching Techniques.

220. Plant Growth. A course in the advanced phases of plant growth dealing with such phenomena as trophism, adaptations, periodicity, physical and chemical responses, and correlations. Fee, \$1 for each credit hour. Prereq., 1 and 116. (3-5) Wiggin.

222. Agricultural Problems. Designed to train the student in some important advanced laboratory methods and research problems encountered in the agricultural field with an accompanying survey of available literature. 1 lec. and 4-8 lab. Fee, \$1 for each credit hour. Prereq., 1 and 116. (3-5) Wiggin.

226. Forest Survey. A field-laboratory study of special topics selected from: forest management, forest technic, natural and artificial regeneration of woodlots, locations and habitats of trees, forests and erosion, forestry, and permanent agriculture. 6-10 lab. Fee, \$1 for each credit hour. Prereq., 3, 4, and 6 hrs. botany. (3-5) Copeland.

381. Research in Agriculture. Problems for investigation confined to conservation of natural resources of the farm, domestication of wild plants,

and rural economics. 6-12 lab. or field. Fee, \$1 for each credit hour. Prereq., 1, 3, 4, and 6 hrs. botany. (3-10) Copeland.

ARCHAEOLOGY AND ANTIQUITIES

101. Introduction to Archaeology. The history of the development of archaeology from its earlier stages to its present status of dignity and scientific method. Methods and techniques of archaeology, its aims and purposes, the general types of archaeological work and excavation with emphasis on some of the more important sites. (3) Hill, Johnston, Taylor.

202. The Archaeology of the Mediterranean Area. Designed to provide a comprehensive appreciation and understanding of the archaeological activities in this area. The archaeology of Palestine and Egypt, with emphasis on the Minoan (Cretan) and Mycenaean civilization. The archaeology of Greece and the Aegean islands, and to a lesser extent the archaeological remains of the Roman period. Prereq., 12 hrs. foreign language or 12 hrs. history and antiquities. (3) Hill, Taylor.

For additional courses see the following:

Gr. 55, 56. Contributions of Greek Civilization.

Lat. 229. History of Roman Culture.

Lat. 231. The Life of the Romans.

P. A. Arts 21. History of Art.

Phil. 201. History of Ancient and Medieval Philosophy.

Soc. 125. Cultural Anthropology.

ART

(See Painting and Allied Arts)

ASTRONOMY

(See Mathematics and Astronomy)

BIOLOGY

(See Botany or Zoology)

BOTANY

The major requirement in botany for the A.B. or B.S. degree is a minimum of 36 semester hours including Bot. 1, 2 or 101, 102; 205, 206; 207, 208 or 209, 210; 221, 222, 227, 281; and 6 semester hours in zoology.

1, 2. Freshman Botany. A general survey of the field of botany. 2 lec. and 2 lab. Fee, \$3. (3) Boetticher, Matheny, Vermillion.

101, 102. General Botany. A course in systematic botany for advanced students beginning the subject. Not open to those who have credit in Bot. 1 and 2. 2 lec. and 2 lab. Fee, \$3. (3) Matheny.

107. **Wild Flower Identification.** (Summer session only.) A course to familiarize the student with the local flora. Trips are conducted to nearby points of botanical interest. 2 lec. and 2 lab. Fee, \$3. (3) Matheny.

111, 112. **Economic Botany.** A study of the origin, uses, and economic importance of plants and plant products, and the application of botany to modern industrial life. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Vermillion.

123, 124. **General Science.** (Summer session only.) A course for those who expect to teach the subject. 2 lec. and 2 lab. Fee, \$3. (3) Matheny.

131. **The School Museum.** A study of the use, organization, and care of the school museum. Practice in the university museum. (2) Matheny.

133, 134. **Nature Study.** A course in which the student is introduced to a better understanding and appreciation of the living things in nature about him. 2 lec. and 2 lab. Fee, \$3. (3) Boetticher, Matheny, Vermillion.

168b. **Teaching of Botany.** See Ed.—Teaching Techniques.

168g. **Teaching of General Science.** See Ed.—Teaching Techniques.

203, 204. **Plant Ecology.** A study of plants in relation to their environment. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

205, 206. **Plant Physiology.** The physiology of absorption, rise of sap, transpiration, food synthesis, translocation, respiration, fermentation, waste products, and growth. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Vermillion.

207, 208. **Mycology.** A general survey of fungi. The structural characteristics of the various groups are studied. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Boetticher.

209, 210. **Plant Microtechnic.** The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of the camera lucida, micrometers, and photomicrographic practices. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Boetticher.

215, 216. **Taxonomy of Vascular Plants.** The phylogeny of pteridophytes and gymnosperms with special attention to floral structures and organography, and the taxonomy of monocotyls and dicotyls. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Boetticher.

221, 222. **Plant Pathology.** A course dealing with the nature, cause, and control of plant diseases. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

227. **Freshwater Algae.** The structure, classification, and environmental relations of freshwater algae. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

229. **Field Botany.** (Post session only.) A lake-laboratory course at Buckeye Lake. A study of about three hundred species of plants representing more than sixty families found in and around the lake. Opportunities

for studies and research in ecology and taxonomy. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

281. Research in Botany. Fee, \$1 for each credit hour. Prereq., 20 hrs. (1-6) The staff.

291. Seminar in Botany. Prereq., 15 hrs. (1-2) The staff.

395. Thesis. (4-8) The staff.

BUSINESS LAW

(See Commerce)

BUSINESS MANAGEMENT

(See Commerce)

CHEMISTRY

The major requirement in chemistry for the A.B. or B.S. degree is a minimum of 36 semester hours including Chem. 1-2 or 3-4, 105-106, 109-110, 115-116, 119, and 213-214.

Students who plan to enter the field of chemical industry are advised to add the following to the above requirements: Chem. 120; Chem. approved electives (12-15); Ec. 102; Geog. 125 (Geology); Math. 118, 125; Phil. 109; Physics 114 and Physics approved electives.

1-2. General Chemistry. 3 lec. and 3 or 4 lab. Fee, \$4. (4) Morton, Gullum, Eblin.

3-4. General Chemistry. 3 lec. and 3 lab. Fee, \$4. Prereq., high school chemistry. (4) Clippinger, Eblin.

105-106. Qualitative Analysis. The separation and detection of metals. Course 106 continues with a complete qualitative analysis of simple substances and mixtures. 1 lec. and 8 lab. Fee, \$3. Prereq., 2 or 4. (3) Gullum.

109-110. Quantitative Analysis. The problem side of analytical chemistry as well as the laboratory. The course teaches the rapidity and accuracy necessary to analytical work; the interpretation of results and the exercise of care and integrity. Primarily volumetric analysis. In course 110 the following phases are considered: iodometry, volumetric precipitation, electrolytic and electrometric analysis, and gravimetric procedure. 2 lec. and 6 lab. Fee, \$4. Prereq., 4 or 105. (4) Clippinger.

113. Organic Chemistry (Short Course). Prereq., 2 or 4. (3) Dunlap.

115-116. Organic Chemistry. The course is designed for students in the pre-medical and chemical courses. Prereq., 2 or 4. (3) Dunlap.

119-120. Organic Preparations. Practical work in organic chemistry. Fee, \$5. Prereq., 115 or with 115. (2) Dunlap.

122. Physiological Chemistry. 2 lec. and 4 lab. Fee, \$3. Prereq., 115. (3) Gullum.

168s. Teaching of Chemistry and Laboratory Practice. See Ed. — Teaching Techniques.

201-202. Inorganic Preparations. A fundamental course in the preparation of typical chemical substances in the pure condition. The course illustrates the general methods of simple crystallization in the presence of isomorphous impurities. Several electrochemical preparations are included. Laboratory and conferences. Fee, \$4. Prereq., 109. (4) Clippinger.

205. Advanced Quantitative Analysis. Special problems in analytical chemistry. Fee, \$3. Prereq., 110 and permission. (3) Clippinger.

206. Industrial Analysis. The analysis of oils, gases, and water, with problems for interpretation. Fee, \$3. Prereq., 110. (3) Clippinger.

209. Advanced Organic Chemistry. A presentation of special topics in the field of organic chemistry. Contributions of organic chemistry to fundamental chemical principles and the applications of chemical theories to problems of organic chemistry are emphasized. Prereq., 120. (2) Eblin.

213-214. Physical Chemistry. Prereq., 116, Math. 117 or with 117, and Physics 6 or 114. (3) Morton.

215-216. Practical Physical Chemistry. Fee, \$3. Prereq., 214. (3) Morton.

217-218. Advanced Physical Chemistry. Prereq., 214 and Math. 118. (2-12) Morton, Eblin.

221. Qualitative Organic Analysis. The separation and identification of organic compounds. Preliminary to research in organic chemistry. 1 lec. and 6 lab. Fee, \$3. Prereq., 120. (3) Dunlap.

224. Metallography. A study of metallic structure, heat treating, polishing, microscopic examination, and photographing of steels and other alloys. Fee, \$3. Prereq., 214. (3) Clippinger.

225. Electrochemistry. A study of the fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, electromotive force of concentration and oxidation-reduction cells, polarization, and depolarization. Practical applications of electrolytic reduction and oxidation. Prereq., 214. (2) Clippinger.

227. Atomic Structure. The modern theory of the atom and the application to chemical phenomena. Prereq., 214. (2) Morton.

228. Colloid Chemistry. Theoretical discussion and applications to chemical industry. Prereq., 214. (2) Eblin.

229-230. Chemical Engineering. A study of the fundamental principles of unit operations with problems to illustrate the theories. Prereq., 214. (3) Dunlap.

231-232. Practical Chemical Engineering. Laboratory practice in heat transfer, filtration, distillation, etc. Fee, \$2. Prereq., 229 or with 229. (2) Dunlap.

240. Pyrometry. A study of heat measurement and control in industrial operations. Fee, \$3. Prereq., 214. (3) Eblin.

251. **Special Problems in Chemistry.** A consideration of special problems and methods as applied to the chemical industries. Fee, \$1 for each credit hour. Prereq., 24 hrs. (3-6) The staff.

381. **Research in Chemistry.** Fee, \$1 for each credit hour. Prereq., 36 hrs. (3-12) The staff.

395. **Thesis.** (2-4) The staff.

CIVIL ENGINEERING

1-2. **Mechanical Drawing.** Free hand lettering, use of instruments, geometric constructions, orthographic projection, revolution, auxiliary and sectional views, and dimensioning. Isometric, oblique, detail and assembly drawings. Intersections, developments, structural, electrical and architectural drafting, tracings and blue prints. Students who enter with one or more units of mechanical drawing may be excused by the instructor from part or all of the course. 6 lab. (2) Thomas.

74. **Engineering Instruments.** Verniers, planimeters, and slide rule. Prereq., Math. 5. (1) Thomas.

103. **Mechanical Drawing.** Working drawings of furniture, of joints used by cabinet makers, preparation of stencils. 1 lec. and 5 lab. Prereq., 1. (2) Thomas.

105. **Descriptive Geometry.** Problems relating to points, lines, planes, and their projections in the different quadrants, space visualization, planes, solids, curved surfaces, intersections of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec. and 5 lab. Prereq., 1 or with 1. (3) Thomas.

107. **Perspective Drawing.** Representation of an object as it would appear on a plane when viewed from a point; drawing of shadows on objects and planes, both in parallel and oblique perspective. 3 lab. Prereq., 2. (1) Clark.

110. **Plane Surveying.** Surveying methods and methods of computation. Each student completes twenty field problems. 3 lec. first 10 weeks and 8 lab. last 8 weeks. Fee, \$3. Prereq., Math. 5. (3) Clark.

111. **Field Work.** Preliminary survey for a railroad or highway; profile of the line; computation of cut and fill, and cost estimate; setting slope stakes. 6 lab. Fee, \$2. Prereq., with 151. (2) Clark.

113. **Topographic Surveying.** Application of the principles of surveying to map making, study of horizontal and vertical control, triangulation, stadia traversing, note taking and reduction, and map making. 6 lab. Fee, \$2. Prereq., 110. (2) Clark.

121. **Applied Mechanics (Statics).** Algebraic and graphic solution of equilibrium of forces, application to jointed frames in plane or space, centroids and moments of inertia, friction. Prereq., Math. 6. (3)

- 123. **Materials of Construction.** Manufacture, tests, properties, and uses of various materials important in engineering construction. (2)

124. **Strength of Materials.** Resistance and elasticity of materials, ultimate stresses and deformations, riveted joints, shear and moment in beams, columns. Prereq., 121 and Math. 118. (3)

125. **Engineering Problems.** Typical problems in engineering, involving applications of mathematics through calculus. Prereq., Math. 118. (3) Gaylord.

126. **Testing Laboratory.** A series of experiments on the tensile, compressive, and shearing strengths of the principal materials of engineering. 3 lab. Fee, \$1. Prereq., with 124. (1)

127. **Testing Laboratory.** Cement and aggregate analyses, slump tests, compressive tests on concrete cylinders, effect of admixtures. 3 lab. Fee, \$1. Prereq., 126 and with 135. (1)

130. **Stresses in Structures.** Application of the laws of static equilibrium to the analysis of stresses in component parts of engineering structures. 4 lec. and 2 lab. Prereq., 121 and Math. 118. (5) Gaylord.

132. **Graphic Statics.** Graphic solution of statically determinate forces; use of the equilibrium polygon and stress diagrams. 3 lab. Prereq., with 130. (1) Gaylord.

133. **Structural Design.** Principles involved in the design of members for steel structures. Applications and problems in the design of roof trusses, bridges, and building frames. 4 lec. and 2 lab. Prereq., 124 and 130. (5) Gaylord.

134. **Structural Design.** Each student is required to make a complete design for a highway or railroad bridge, following standard specifications issued by the state highway departments and railroad companies. 6 lab. Prereq., 133 or 139. (2) Gaylord.

135. **Reinforced Concrete.** Theory and design of slabs, beams, columns, and footings. Prereq., 124 and 130. (4)

136. **Masonry.** Materials and their use in the construction of masonry structures such as foundations, dams, walls, abutments, and arches. Prereq., 135. (3)

138. **Stresses in Structures.** An abbreviation of course 130, for students who are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 121. (3) Gaylord.

139. **Structural Design.** An abbreviation of course 133, for students who are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 124 and 138. (3) Gaylord.

141. **Hydraulics.** Application of the fundamental principles of hydraulics to engineering. Pressure on submerged surfaces, orifices, weirs, pipes, and open channels. 3 lec. and 2 lab. Prereq., 121 and Math. 118. (4) Clark.

142. Sanitary Engineering. Sewer systems and sewage disposal, rational methods of estimating quantities of sewage, construction and relative advantages of various types of disposal plants. Prereq., 141. (3) Clark.

144. Water Supply. Design, construction, and maintenance of water supply systems, sources of water supply, purification, delivery systems. Prereq., 141. (2)

151. Railroad Engineering. Simple and compound curves, turnouts, vertical curves, earthwork and construction methods. Prereq., 110. (3) Clark.

152. Highway Engineering. Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 151. (3) Thomas.

214. Advanced Surveying Problems. Principles and practice in calculations for azimuth, longitude, and latitude by means of astronomic observations on Polaris and the sun, use of the plane table, and an intensive study of contour lines. 6 lab. Prereq., 113. (2) Clark.

227. Advanced Structural Analysis. Theory of analysis of structures for which the conditions of statics do not suffice to effect a solution. Prereq., 130 or 138 and Math. 118. (3) Gaylord.

228. Advanced Structural Analysis. Continuation of 227. Arches, rigid frames, Vierendeel trusses. 1 lec. and 3 lab. Prereq., 227. (2) Gaylord.

276. Contracts and Specifications. A study of the writing and use of engineering contracts and specifications. (2)

278. Engineering Costs. Economy in engineering, comparisons of immediate economy, ultimate economy, advisability of replacing an existing structure, engineer's use of accounting records, estimating technique. (3) Gaylord.

291. Seminar in Civil Engineering. Prereq., 15 hrs. (1) The staff.

CLASSICAL LANGUAGES

GREEK

1-2. Beginning Greek. An introductory study of the language leading to the reading of selections from classical authors. Attention to the Greek element in English. (4) Hill.

55, 56. Contributions of Greek Civilization. A study of the contributions of Greek civilization to modern life. Such specific subjects as history, political science, geography, music, literature, medicine, architecture, mathematics, and the sciences are considered for the part Greece had in their development. No knowledge of Greek required. (1) Hill.

101-102. Xenophon, Homer, and Plato. The reading of parts of Xeno-

phon's *Anabasis* with some review of language principles. Selections from Homer's *Iliad* and *Odyssey*, followed in Gr. 102 by Plato's *Apology* and *Crito* with some attention to allied philosophical works. Prereq., 2. (3) Jolliffe.

114. The Greek Epic in English. The *Iliad* and *Odyssey* are read in translation, and some attention is given to the development of the epic. (1) Jolliffe.

127. Greek Words in English. Literary and scientific terms of Greek origin which provide a major part of the technical and semi-technical vocabulary in many of the cultural and professional fields. Special laboratory assignments for developing the student's vocabulary in the range of his particular interests. No previous knowledge of Greek required. Prereq., 6 hrs. foreign language or English. (2) Hill, Brokaw.

211. Greek Drama in English. A survey of Greek dramatic literature with readings from the masterpieces of Greek drama. Prereq., 12 hrs. English. (2) Jolliffe.

216. New Testament Greek. Prereq., 11 hrs. (2) Hill.

309. Greek Lyric Poets. Theocritus, Pindar, and Sappho. Prereq., 14 hrs. (2) Hill.

310. The Greek Orators. Selections from Lysias and Demosthenes. Prereq., 14 hrs. (2) Hill.

LATIN

1-2. Beginning Latin. Corresponds to first two years of high school Latin. Introductory course leading to the reading of easy Latin stories of history and mythology with selections from Caesar's *Gallic Wars* in the second semester. Emphasizes the Latin influence on the language, literature, law, and customs of the modern world. (4) Jolliffe.

3. Cicero's Orations. Begins with a review of the language and readings from Caesar's *Gallic Wars*, followed by selected orations of Cicero. Prereq., 2 or 2 yrs. high school Latin. (4) Brokaw.

4. Vergil. Selections from the first six books of the *Aeneid*, with some study of classical mythology. Prereq., 3 or permission. (4) Brokaw.

101. Cicero's Essays. *De Amicitia*, *De Senectute*, *Scipio's Dream*. Some review of essential elements of Latin and a comparative study of the literature on friendship during the first half of the semester. Prereq., 4, 4 yrs. high school Latin, or 3 yrs. and permission. (4) Hill.

102. Horace and Terence. A comedy of Terence and selections from Horace's *Odes and Epodes*. Prereq., 101 or permission. (4) Hill.

103. Pliny's Letters. Selections which reveal the human side of Roman life and society from Nero to Trajan. Prereq., 101. (3) Jolliffe.

104. Livy and Ovid. The legendary history of early Rome and stories from Ovid. Prereq., 101. (3) Brokaw.

112. **Writing Latin Prose.** Exercises in writing Latin, designed to give the student greater mastery of the language. Prereq., 101. (1) Hill.

121. **Sallust.** (Summer session only.) The *Catiline* and selections from the *Jugurtha*. Prereq., 4. (3) Jolliffe, Brokaw.

123. **Nepos and Livy.** (Summer session only.) Selected *Lives* of Nepos and readings from Livy ranging in time from the founding of the Republic to the end of the Punic Wars. Prereq., 4. (3) Brokaw.

125. **Cicero, Selected Works.** (Summer session only.) The reading of important orations of Cicero not commonly read in high school, and selections from his other works which are of particular interest to teachers of high school Latin. Prereq., 101 or permission. (3) Brokaw.

165r. **Teaching of Latin.** See Ed. — Teaching Techniques.

211. **Cicero and Catullus.** Selected letters from Cicero and selections from the *Carmina* of Catullus. Prereq., 103. (3) Hill, Brokaw.

212. **Caesar and Plautus.** Caesar's *Civil War* and Plautus' *Captivi* or *Mostellaria*. Prereq., 103. (3) Jolliffe.

213. **Horace and Juvenal.** (Not offered in 1938-1939.) *Satires*. Prereq., 103. (3) Hill, Brokaw.

214. **Tacitus and Medieval Latin Selections.** (Not offered in 1938-1939.) The *Agricola* and *Germania* are read from Tacitus. Prereq., 103. (1-3 as scheduled) Jolliffe.

220. **Vergil, Latin Epic.** (Summer session only.) Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Prereq., 103. (3) Hill.

221. **Suetonius.** (Summer session only.) The lives of Julius Caesar and of Augustus with some consideration of facts obtained from other sources. Prereq., 103. (3) Hill, Brokaw.

222. **The Latin Dramatists.** Selected comedies from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama among the Romans and their relation to the Greek. Prereq., 103. (3) Hill, Jolliffe.

223. **Vergil's Eclogues and Georgics.** (Summer session only.) Informal lectures on the early life of Vergil with the reading of selections from the *Eclogues* and *Georgics*. Some attention is also given to the collection of minor works known as the *Appendix Vergiliana*. Prereq., 103. (3) Jolliffe.

224. **Petronius.** The *Cena Trimalchionis* is read and studied both for the light it throws on social life at Rome and as an example of Latin prose of the Empire. Prereq., 104. (2) Brokaw.

225. **De Natura Deorum.** Cicero's presentation of the classic conception of the nature of God and the founding of the universe. Prereq., 104. (2) Hill.

226. **Martial.** A study of the epigrams of Martial as they portray with

vivid personal touch almost every phase and station of Roman life. Prereq., 104. (1) Jolliffe.

227. **Roman History in the Classical Period.** (Summer session only.) A brief survey of the outstanding events of Roman history during the period in which the most important works of Latin literature were produced. Prereq., 6 hrs., or 9 hrs. history and antiquities. (1) Hill, Jolliffe.

228. **Roman Religion and Mythology.** Emphasis upon the relationship between Roman religion and mythology and upon the attributes and functions of the various divinities and mythological characters. Prereq., 8 hrs. classical languages or history and antiquities, or 12 hrs. English. (2) Brokaw.

229. **History of Roman Culture.** Beginning with the archaeological evidence of civilization in Italy and in the whole area of the Mediterranean at the time of the traditional founding of Rome, the course is designed to trace the various influences and stages in the growth of Roman culture. Prereq., 9 hrs., or 12 hrs. history and antiquities. (2) Hill.

231. **The Life of the Romans.** The social customs of the Romans: the family, the house, transportation, sources of income, social organization, slavery, public amusements, and related features of Roman life. Various phases are illustrated from the archaeological evidence. Prereq., 12 hrs., or 12 hrs. history and antiquities. (2) Hill.

232. **Introduction to the History of Language.** A study of the principles of linguistic change. Special attention to the development of the Romance languages from Latin and to the history and development of English. Prereq., 14 hrs. foreign language or 12 hrs. English. (2) Jolliffe.

233. **Advanced Latin Syntax.** A study of the principles of Latin syntax with emphasis upon their application in translation. Prereq., 103. (1-3) Hill, Brokaw.

235. **Latin Poetry of the Empire.** Generous selections from the best of the post-Augustan poets. Designed to acquaint the student with the wealth of poetic literature in the period which followed the golden age. Prereq., 103. (3) Hill.

238. **Epigraphy and Paleography.** An introductory study of the form and content of Latin inscriptions with the reading of a limited number to illustrate their value as a source of information. A consideration of Latin manuscripts, the various styles of writing, and the relation of the manuscripts to the established text of a Latin author. Prereq., 103. (2) Jolliffe, Brokaw.

240. **Special Work in Latin.** Individual work under careful guidance. Prereq., 103. (1-5) The staff.

311. **Ovid's *Fasti*.** Selected books of the *Fasti* are read for content and for the light they throw on early Roman religion. Some study of elementary principles of text criticism. Prereq., 15 hrs. (3) Hill.

312. **Sallust's *Catiline* and *Jugurtha*.** These are read in their entirety

as a background to the political situation which ushered in the Empire. Prereq., 20 hrs. (3) Hill.

391. **Latin of the Transition Period (Seminar).** Prereq., 20 hrs. (3) Hill.

395. **Thesis.** A thesis may be offered in Latin or in classical languages. (4-8) The staff.

COLLEGE PROBLEMS

1. **College Problems.** A course of lectures and conferences during the first semester designed to help the student make his adjustments to the personal problems of university life. Required of all freshmen. (1) Voigt, Johnston.

COMMERCE

ACCOUNTING

75-76. **Elementary Accounting.** The fundamental principles of accounting theory and practice. (3) Fenzel, Beckert, Ray, Otis.

81. **Accounting Survey.** Open only to non-commerce students in order that they may obtain a knowledge of general principles of accounting in a minimum of time. (2) Beckert.

101-102. **Secretarial Accounting.** The fundamental principles of accounting with particular emphasis on their application in the accounts of institutions, societies, individuals, and professional men. Not open to students who have had course 75-76. (3) Sponseller.

125. **Intermediate Accounting.** The preparation and analysis of balance sheet and income statements, principles of actuarial science, accounting for corporate net worth, and current asset valuation. Prereq., 76 or 102. (3) Fenzel, Beckert, Otis.

156. **Accounting Systems.** Principles and problems of system designing and analyses of systems for specialized enterprises. Prereq., 125. (3) Otis.

161b. **Teaching of Bookkeeping.** See Ed. — Teaching Techniques.

175. **Cost Accounting.** Manufacturing cost determination under the job-order and process systems. Prereq., 125. (3) Ray.

195. **Advanced Principles of Accounting.** Actuarial science as related to accounting, principles of fixed asset valuation, special phases of net worth accounting, consignments, installment sales, and special statement analyses. Prereq., 125. (3) Beckert, Ray, Otis.

206. **Advanced Problems of Accounting.** Problems peculiar to partnerships, receiverships, and fiduciaries; accounting for branch houses, ventures, governmental units, and brokers; consolidated statements; and foreign exchange as related to accounting. Prereq., 195. (3) Ray, Otis.

224. **Standard Costs and Budgets.** The establishment of cost standards; preparation of budgets; and analysis of cost variances. Prereq., 175. (3) Ray.

243. **Income Tax.** A study of the current Federal Revenue Act and its application to hypothetical cases. Returns are prepared for individuals, partnerships, and corporations. Prereq., 125. (3) Ray.

255-256. **Auditing.** Purposes of audits and examinations, and principles and problems of procedure supplemented by analyses of cases and audit working papers. Prereq., 195. (3) Otis.

278. **C. P. A. Problems.** Analysis, interpretation, and solution of problems selected from examinations given by various state boards. Prereq., 255. (3) Otis.

281. **Research in Accounting.** Prereq., 175, 195, and permission. (2-8) The staff.

391. **Seminar in Accounting.** Prereq., 15 hrs. accounting and permission. (2-10) The staff.

395. **Thesis.** (4-8) The staff.

ADVERTISING

155. **Advertising Principles.** The fundamentals of advertising as developed in modern procedure. Prereq., Mkt. 155 or permission. (3) Krauskopf.

176. **Advertising Problems.** A logical sequel to Advertising Principles. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155. (2) Krauskopf.

186. **Retail Advertising.** The principles of advertising as related to the needs of retailers. Prereq., 155. (3) Krauskopf.

211. **Direct Mail Advertising.** (1939-1940) An examination of direct mail materials other than the letter from the campaign point of view. Special emphasis is placed on booklets. Prereq., 155 and Ec. 102. (2) Krauskopf.

232. **Copy Writing.** The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 102. (2) Krauskopf.

281. **Research in Advertising.** Prereq., 18 hrs. commerce including 5 hrs. advertising and permission. (2-8) The staff.

391. **Seminar in Advertising.** Prereq., 18 hrs. commerce including 5 hrs. advertising and permission. (2-10) The staff.

395. **Thesis.** (4-8) The staff.

For additional courses see the following:
Ind. Arts 146. Printing Advertising.

Jour. 174. Newspaper Advertising Practice.

Jour. 247. Newspaper Advertising.

P. A. Arts 148. Principles of Art in Advertising.

P. A. Arts 217-218. Poster Advertising and Industrial Styling.

Psy. 6. The Psychology of Advertising and Selling.

BUSINESS LAW

155-156. **Business Law.** The principles of law involved in contracts, agency, sales, bailments, negotiable instruments, partnerships, and corporations. Prereq., junior rank. (3) Dykstra.

175. **Government and Business.** Statutes, and court decisions interpreting them, by which federal, state, and local governments control, regulate, and aid business. Prereq., junior rank. (2) Dykstra.

185. **Law of Marketing.** Trademarks, methods of protecting goodwill, relief against unfair competition and the legal aspects of other problems encountered in advertising and marketing. Prereq., 155 and Mkt. 155. (2) Dykstra.

190. **Business Torts.** Trespass to personal and real property, nuisance, libel and slander, negligence, fraud or deceit, and unlawful interference with business or employment. Prereq., 155 and 175, or 156. (3) Dykstra.

211. **Law of Corporate Organization and Reorganization.** Legal problems involved in corporate formation, and reorganization with special reference to procedure under 77 B of the Federal Bankruptcy Act. Prereq., 156. (2) Dykstra.

222. **Law of Commercial Paper.** (1939-1940) A comprehensive study of bills and notes and other evidences of indebtedness. Prereq., 156. (2) Dykstra.

231. **Law of Wills and Trust Administration.** (1939-1940) The disposition of property by will and the creation and administration of trusts. Prereq., 156. (2) Dykstra.

242. **Law of Real Estate and Conveyancing.** Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 156. (2) Dykstra.

255. **Building and Loan Organization and Management.** Legal aspects of building and loan organization and management under state and federal charter. Prereq., 156. (2) Dykstra.

281. **Research in Law.** A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce including 156 and permission. (2-8) Dykstra.

BUSINESS MANAGEMENT

15. **Introduction to Business Management.** A comprehensive picture of business life covering the organization and functioning of business enter-

prises. Not open to upper classmen pursuing the B. S. C. degree. (3) Beckert.

211. Industrial Management. The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prereq., Ec. 102. (3) Gubitz.

271. Business Policy. A correlation of the work of other courses offered in commerce. Business problems of general administration rather than those of any special activity are considered. Prereq., Ec. 102 and senior rank. (3) Armbruster.

For additional courses see the following:

Ec. 212. Administration of Personnel.

Ec. 235. Labor Relations.

Ec. 238. Labor Legislation.

Stat. 217. Statistical Control of Internal Business Operations.

ECONOMICS

1. Economic Development. A study of the economic development of man and his institutions. (3) Gubitz, Hellebrandt, Hanson.

Note—It is recommended that this course precede or follow Soc. 1, Social Development, thus giving University College students a one year introductory course in social science.

2. Economic Development. An explanation of the inter-relationships of the European economic system. (3) Gubitz, Hellebrandt.

101-102. Principles of Economics. The following economic material is presented: production, consumption, distribution, exchange, money and banking, business cycles, credit, international economic relations, government and taxation, and economic control. (3) Gubitz, Hellebrandt.

205. Transportation. The social, political, and economic aspects of the transportation problem are viewed by analyzing the nature, history, and problems of the various transportation agencies of the United States. Prereq., 102. (3) Hellebrandt.

206. Transportation Problems. Coordinate transportation, motor vehicle regulation, consolidation, finance, holding companies, commission regulation, and other current problems as they affect the various transportation agencies. Prereq., 205. (2) Hellebrandt.

209. Public Utilities. The course is a study of the economic basis of public utility enterprise: its nature and scope, its development and legal organization. Prereq., 102. (3) Hellebrandt.

210. Public Utility Problems. Practical problems of rate-making, service, finance, the holding companies, public ownership, public relations, and commission regulation as they affect local utility companies. Prereq., 209. (2) Hellebrandt.

211. Land Economics. The course includes studies of the following: characteristics, classification, present and future utilization, property rights in water, ownership, land credits, values and valuations, the social ends of land utilization, and policies of land taxation. Prereq., 102. (2) Gubitz.

212. Administration of Personnel. A comprehensive survey in the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102. (3) Gubitz.

215. Public Finance. A survey of government expenditures, revenues, debts, and principles of financial administration. Prereq., 102. (2) Gubitz.

216. Taxation. Trends in public expenditures and the incidence of taxation. Prereq., 102. (2) Gubitz.

220. Trust and Corporation Problems. Prereq., 102. (3) Gubitz.

227. Current Economic Problems. Prereq., 102. (3) Gubitz, Hellebrandt, Church.

229. Modern Trends in Economic Reform. This course deals with a comparative analysis of recent proposals for economic reform and includes a study of regulated capitalism, Nazism, Fascism, and the Russian experiment. Prereq., 102. (3) Church.

230. History of Economic Thought. A study of the historical evolution of the principal economic doctrines: the Athenian philosophers and Roman jurists, the mercantilists and cameralists, the physiocrats and Adam Smith, the classical school, the historical school, and the Austrian school. Prereq., 102. (2) Gubitz.

235. Labor Relations. A general survey of the forces that give rise to modern labor problems. The purpose of the course is: to give a basis for the developing of a general point of view, to make an analysis of the major problems involved, to indicate the trend of policy and organization, and to offer constructive suggestions for the handling of administrative problems. Prereq., 102. (3) Gubitz.

238. Labor Legislation. A sketch of the historical background of various labor problems indicating the nature and extent of each and describing the legislative remedies which have been applied. Prereq., 102. (3) Gubitz.

281. Research in Economics. Prereq., 15 hrs. and permission. (2-8) The staff.

302. Modern Economic Thought. A general survey of contemporary economic thought. It includes a study of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, and others. Prereq., 18 hrs. commerce including 102. (2) Gubitz.

304. Institutional Economics. Collective action in the control, liberation, and expansion of individual action. Consideration is given to the

writings of economists from John Locke to the twentieth century and to court decisions. Prereq., 12 hrs. (2) Hellebrandt.

391. Seminar in Economics. Prereq., 15 hrs. and permission. (2-10) The staff.

395. Thesis. (4-8) The staff.

FINANCE

101. Money and Credit. The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and credit problems. (3) Hanson.

106. Banking Principles. The theory of banking, the state and national banking systems, the Federal Reserve system, and a historical survey of banking in the United States. Prereq., 101. (3) Hanson.

121. Business Finance. The elements of business finance, the corporation, corporate securities, and financial plans. (3) Armbruster.

142. Consumer Financing. A survey of the institutions other than commercial banks which are designed to furnish this type of financing. Prereq., 101. (2) Hanson.

156. Advanced Business Finance. The sale of securities, distribution of income, expansions and reorganizations. Prereq., 121. (3) Armbruster, Hanson.

159. Foreign Exchange. The foreign exchanges, methods of financing foreign trade, and exchange problems. Prereq., 101 and Ec. 102. (3) Paynter.

175. Investment Principles. A study of various types of securities; investment tests, investment policies, methods of security analysis, and sources of information. Prereq., 121. (2) Wolfe.

201. The Stock Market. The organization, operation, and regulation of stock exchanges, with particular reference to the New York Stock Exchange. Prereq., 101 and 121. (2) Hanson.

206. Investment Analysis. An analytical approach to the formulation of investment programs and the selection of specific securities. Prereq., 175. (2) Wolfe.

219. Insurance. Prereq., Ec. 102. (2) Hellebrandt.

221. Federal Reserve System. The history of the Federal Reserve system, its structure and operation with particular emphasis on its relation to the money market and the problem of credit control. Prereq., 106. (2) Hanson.

242. Foreign Banking Systems. The central banking and commercial banking systems of the leading foreign countries and an examination of their banking theories and policies. Some attention is paid to a comparison with American banking methods. Prereq., 106. (2)

252. International Finance. The financial relations between nations dealing with such problems as the international price level, foreign investments, war debts, reparations, and international banking. Prereq., 106. (3)

281. Research in Finance. Special studies in money, banking, or business finance. Prereq., 9 hrs., Ec. 102, and permission. (2-8) The staff.

391. Seminar in Finance. Prereq., 9 hrs., Ec. 102, and permission. (2-10) The staff.

395. Thesis. (4-8) The staff.

For additional courses see the following:

B. Law. 211. Law of Corporate Organization and Reorganization.

MARKETING

15. Economic Geography. The course deals by countries with the production, distribution, and consumption of the world's products. (3) Fenzel.

155. Marketing Principles. The principles, methods, and policies of marketing consumers' goods and industrial goods. (3) Paynter, Krauskopf.

158. Marketing Problems. A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155. (3) Paynter.

171. Principles of Personal Selling. The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155. (2) Krauskopf.

176. Sales Management. Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155. (3) Krauskopf.

191. Cooperative Marketing. A survey of cooperative marketing in all the stages of distribution. Prereq., 155 or permission. (2) Paynter.

201. Retailing. The organization and operation of retail institutions. Prereq., 155 and Ec. 102. (3) Paynter.

205. Economics of Fashion. The relation of fashion in all kinds of merchandise to the production and distribution of merchandise. Prereq., 201. (3) Miller.

211. Recent Trends in Marketing and Selling. (Summer session only.) Prereq., 155 and Ec. 102. (3) Krauskopf.

226. Industrial Purchasing and Industrial Marketing. The purchasing and selling of industrial goods. Prereq., 155 and Ec. 102. (3) Paynter.

241. Foreign Trade. The theory of foreign trade including free trade and protection, and commercial treaties and tariff history. Prereq., Ec. 102. (3) Paynter.

246. Foreign Markets. A study of foreign markets from the point of view of the American exporter. Prereq., 155 and Ec. 102. (2) Paynter.

257. Retail Selling Problems. Prereq., 205 and H. Ec. 256. (2) Miller.

260. Store Practice. Experiences in selling and non-selling operations in retail stores supplemented by reading, lectures by store executives, and conferences with supervisors. Applicable for credit only on the degree of Bachelor of Science in Education or the Bachelor of Science in Secretarial Studies. Prereq., 257. (5) Miller.

281. Research in Marketing. Research methods, market data and methods of conducting market surveys. Prereq., 18 hrs. commerce including 5 hrs. marketing, and permission. (2-8) The staff.

391. Seminar in Marketing. Prereq., 18 hrs. commerce including 5 hrs. marketing, and permission. (2-10) The staff.

395. Thesis. (4-8) The staff.

SECRETARIAL STUDIES

15-16. Typewriting. Students are expected to attain a speed of thirty words a minute at the close of the first semester; forty-five words a minute at the close of the second semester. Students who have had typewriting in high school should register for course 16 or 111. 5 lec. and 1 lab. Fee, \$2. (2) Sponseller, Snook.

31-32. Shorthand. A course in Gregg shorthand. In the second semester, a student should pass the standard Gregg Writer Complete Theory Test and a five-minute sixty-word-a-minute transcription test. Four hours a week. Prereq., 15 or with 15. (3) Miller.

75-76. Stenotypy. A system of recording speech in plain English letters by means of a machine called the stenotype. Four hours a week. One additional hour to be arranged. Prereq., 15. (3) Snook.

101-102. Secretarial Accounting. See Acct. 101-102.

111. Typewriting. A course planned to develop typewriting speed and accuracy. 5 lec. and 1 lab. Fee, \$2. Prereq., 16. (2) Sponseller.

120. Business Letter Writing. The principles of writing business letters and reports. Prereq., Eng. 4. (3) Reynolds.

151-152. Dictation and Transcription. The standard of credit for the first semester is the 100-word transcription test; for the second semester, 120 word. Two hours a day, four days a week. Prereq., 16 and 32. (5) Miller.

153. Court Reporting. The techniques of reporting in shorthand and transcribing court proceedings, hearings, meetings, etc. One hour daily. Prereq., 111 and 152. (3) Miller.

161a. Teaching of Business Subjects. See Ed. — Teaching Techniques.

161s. Teaching of Shorthand. See Ed. — Teaching Techniques.

161t. Teaching of Typewriting. See Ed. — Teaching Techniques.

171. Secretarial Theory. Designed to give training in the operation of

office machines and in the duties of a private secretary. Five hours a week. Fee, \$2. Prereq., 16 and 32. (2) Sponseller.

172. **Secretarial Theory.** Designed to give the student training in filing and in the use of the commercial dictaphone. Three hours a week. Fee, \$1. Prereq., 16 and 32. (1) Snook.

175. **Secretarial Practice.** Students spend five hours a week working in offices on the campus, and five hours in the secretarial practice laboratory and conference. Prereq., 151 and 171. (4) Reynolds, Rowland.

176. **Secretarial Practice.** Practice in the office of the Bureau of Appointments for one hour each day for a semester and field observations in the personnel offices of various industries. Weekly conferences. Prereq., 151 and 171. (4) Reynolds, Van Hamm.

180. **Operation of Office Machinery.** Three hours a week. Prereq., junior or senior rank. Fee, \$1. (1) Sponseller.

185. **Office Management.** A study of the principles governing office administration with emphasis upon organization, management, layout, equipment, and functions. Prereq., junior or senior rank. (2) Reynolds.

287. **Research in Business Teaching Problems.** See Ed. — Research and Scientific Techniques.

391. **Seminar in Business Teaching Problems.** See Ed. — Research and Scientific Techniques.

395. **Thesis.** (4-8) Reynolds.

STATISTICS

155-156. **Business Statistics.** Statistical methods with particular emphasis on their application to the analysis of business and economic problems. 1 lec. and 2 lab. Fee, \$2. (2) Church.

217. **Statistical Control of Internal Business Operations.** Calculation and interpretation of statistical measures used in controlling the operations of large business organizations. Prereq., 155, Acct. 76, and Ec. 102. (2) Church.

223. **Basic Industries.** Comparative analysis of basic industries with primary reference to variations among these broad industrial groups and among corporations operating in selected fields. Prereq., 155 and Ec. 102. (3) Church.

241. **Business Cycles.** A statistical study of the broad aspects of business cycles, the variations in intensity and timing among selected industries, and an examination of some methods used in forecasting business fluctuations. Prereq., 155 and Ec. 102. (3) Church.

252. **Current Business Conditions.** Concrete application of statistics to current information; emphasis upon the significance of the results to exec-

utives in selected types of establishments. 2 lec. and 2 lab. Fee, \$3. Prereq., 155 and Ec. 102. (3) Church.

281. Research in Business Statistics. Prereq., 18 hrs. commerce including Stat. 156 and permission. (2-8) The staff.

391. Seminar in Business Statistics. Prereq., 18 hrs. commerce including Stat. 156 and permission. (2-10) The staff.

395. Thesis. (4-8) The staff.

For additional courses see the following:

Math. 226. Theory of Statistics.

DRAMATIC ART

1. Speech Survey. A series of lectures designed to give the student a broad conception of the subject matter covered by the School of Dramatic Art. Periodic quizzes and reports. (1) The staff.

7. Introduction to the Fine Arts. Lectures and demonstrations planned to acquaint students with the fine arts field. (2) Pickens assisted by members of the College of Fine Arts.

DRAMATIC PRODUCTION

103. Introduction to the Theatre. The relation of the theatre to the community. The organization and business management of the amateur dramatic group. The play and the bases for its selection. Editing script, casting, rehearsal methods, directing techniques, and the performance. (3) Dawes.

106. Costuming the Play. Consideration of the use of color, line, and texture in designing, constructing, and adapting costumes for the stage. 1 lec. and 2 lab. (2)

121. Scene Design. The various theories of designing, building, and painting of scenery. The student is given the opportunity to see his creations realized in course 131. (3) Jukes.

122. Technical Problems. A course in the principles and art of stage costuming, lighting, and make-up. Opportunity to practice these principles is given by participation in the university and Fortnightly Playshop productions. Prereq., 121. (3) Jukes.

125. Radio Play Production. Radio techniques including the study of sources for radio material and the editing and preparation of radio play script. Use of sound effects. Practice work in the university sound studio and in nearby radio stations. 1 lec. and 2 lab. Prereq., 15. (2) Jukes.

131, 132. Stagecraft. The construction of stage settings and costumes. Application of the theory and principles of the course in scene design through

the production activities of the University Players and the Fortnightly Playshop. 6 lab. Prereq., 122. (3) Jukes.

140. Puppetry. The principles involved in the building, costuming, and manipulation of marionettes, hand-puppets, and hand-and-rod puppets. The student constructs puppets and participates in marionette productions. 1 lec. and 4 lab. Prereq., 4 hrs. (3) Jukes.

149. Principles of Acting. A presentation and discussion of the most widely accepted acting techniques, supplemented by practical experience in the one-act plays produced by the Fortnightly Playshop. 1 lec. and 4 lab. Prereq., 4 hrs. or permission. (3) Dawes.

150. Advanced Acting Technique. A continuation of course 149, stressing more difficult characterizations. Laboratory experience provided in the productions of the Fortnightly Playshop. 1 lec. and 4 lab. Prereq., 149. (3) Dawes.

162h. Teaching of High School Dramatics. See Ed. — Teaching Techniques.

179. History of the Visual Theatre. A review of the development of the physical aspects of the theatre. The sociological, religious, and political factors which have affected methods of dramatic presentation. Techniques contributed by such men as Appia, Bibiena, and Jones. Prereq., 6 hrs., or 12 hrs. English. (3) Jukes.

185. Advanced Scenery and Lighting. Problems and techniques coincident with stage lighting and scenic execution. Building of model sets. Experience in operation of switchboard during play production. 1 lec. and 2 lab. Prereq., 9 hrs. including 121. (2) Jukes.

190. Principles of Play Direction. Development of the procedure the director follows in the preparation of a play for public performance. Analytical study of the script. Methods of casting and rehearsal. Students acquire practical experience as directors of the one-act plays presented by the Fortnightly Playshop. 1 lec. and 4 lab. Prereq., 6 hrs. including 103, or permission. (3) Dawes.

221, 222. Dramatic Composition. (Not offered in 1938-1939.) Theory of playwriting. Practical experience in the writing and re-writing of plays. Scripts of sufficient merit are produced under the writer's supervision by the Fortnightly Playshop. Emphasis is placed on the student's apperceptive background. Prereq., 6 hrs. and 12 hrs. English. (3) Dawes.

295. Seminar in Production Problems. Each student investigates problems in his field of interest. Lectures and group discussions include pageantry, the musical drama, the puppet theatre, the community and church theatre, educational dramatics below the college level, and dramatic criticism. Prereq., 15 hrs. (2-3) Dawes.

395. Thesis. (4-8) The staff.

DEBATE AND ORATORY

3. **Public Speaking.** A fundamental course in effective speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Conferences with instructor. (2) Blyton.

25. **Principles of Argumentation.** Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates. (2) Staats.

102. **Advanced Public Speaking.** An extended study and application of the principles of public speaking. Prereq., 3, 15, or 25. (3) Staats.

110. **Parliamentary Law.** A study of the techniques involved in conducting a public gathering and of presiding over an assembly. (1) Staats.

114. **Writing the Oration.** Individual instruction in the preparation and delivery of speeches and orations for special occasions, and for local, state, and national oratorical contests. Actual occasions and actual audiences in Athens and in neighboring towns. Prereq., permission. (3) Staats.

117. **Debate Practice.** Preparation of debate cases and participation in inter-collegiate debates. Prereq., 25. (3) Staats.

139. **Advanced Debate.** Advanced work in all phases of debating. Prereq., 117 and 1 yr. on the varsity squad. (3) Staats.

162s. **Teaching of Speech in the Grades.** See Ed. — Teaching Techniques.

203. **American Speakers.** Thorough study of the outstanding speakers of America. A study of the speeches, the circumstances under which they were delivered, and their influence measured by conditions of the time. Prereq., 102. (3) Staats.

208. **History of Oratory.** Class study of orations characteristic of the oratory of various periods of history. Prereq., 6 hrs. (3) Staats.

209-210. **Rhetorical Theory.** A detailed study of the principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Modern viewpoints are investigated. In course 210 speeches of eminent orators are analyzed by methods introduced in course 209. Prereq., 203 and 208. (3) Staats.

291. **Seminar in Speech.** Problems in speech, the various speech movements, and the evolution of the speech curriculum. Remedial speech demands in the elementary and secondary school work. Assigned problems. Prereq., 15 hrs. (2-3) Staats.

395. **Thesis.** (4-8) The staff.

CORRECTION AND INTERPRETATION

15. Voice and Diction. Designed to assist in making social adjustments through the medium of speech training. Emphasis upon mental, physical, and emotional coordinations essential to good voice. Special attention to phrasing, intonation, pronunciation, and minor speech difficulties. Group and individual guidance. Vocal recordings. Fee, \$2. (2)

134. Oral Interpretation of Literature. Effective techniques in reading aloud; aid in the development of adequate intellectual and emotional responsiveness to the meaning of literature. Consideration given the various schools of interpretation. Discussion of theory. Practice in reading aloud. Prereq., 3 or 15. (2) Blyton.

195. Introduction to Speech Pathology. The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Clinical practice in the correction of speech anomalies for students not enrolled in course 220. Prereq., 6 hrs., Psy. 1 or 5, or permission. (3) Blyton.

202. Advanced Oral Interpretation. Continuation of Dr. Art 134 with emphasis upon developing skill in oral rendition of the short story, prose, and various forms of poetry. Prereq., 134. (2) Blyton.

212. Phonetics. The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Discussion of various American dialects. Presentation of the sound systems of French, Italian, Spanish, and German. Prereq., 6 hrs. or permission. (3) Blyton.

220. Clinical Methods. An intensive study of various methods employed in the field of speech correction. Practical clinical experience. 1 lec. and 4 lab. Prereq., 8 hrs. and permission. (3) Blyton.

ECONOMICS
(See Commerce)**EDUCATION****ELEMENTARY EDUCATION**

111. Elementary Education. Principles, management, and tests in elementary education. A unitary course to parallel observation and student teaching in the kindergarten and elementary school. 2 lec. and 8 lab. Fee, \$6. (6) Beechel, Class, MacLeod.

112. Principles of Elementary Education. A study of the aims of education; the nature of the learner and of society, and the sociological needs of contemporary life. Prereq., sophomore or junior rank. (3) Beechel.

113. Educational Tests and Measurements. Standardized and informal new-type tests for the elementary grades and the junior high school; prob-

lems involved in the building, administering, scoring, and interpretation of results of tests. Fee, \$2. (2) Class.

114. **Classroom Management.** (3) Class.

115-116. **Home and Industrial Studies for the Elementary School.** (Not offered in 1938-1939.) The emphasis is on fundamental values relative to health, economy, art, and social control. Fee, \$3. Prereq., 111, 172 or 176, or with 111, 172 or 176. (3)

211. **The Elementary Curriculum.** The selection and organization of subject-matter in the elementary school. Theoretical and practical phases of curriculum making. Prereq., 6 hrs. education and Psy. 5. (3) Hansen.

212. **The Supervision of Arithmetic.** The improvement of the course of study and classroom technique, theories of supervision, supervisory tools and techniques, textbook analysis and rating as a basis for selection, social utility, preparation of instructional material, evaluation of courses of study, and psychological analysis of skills. Prereq., 3 hrs. education and Psy. 5. (3) Benz.

HISTORY AND PHILOSOPHY

150. **History of Modern Elementary Education.** The development of elementary education especially in the American schools. (3) Wagner.

250. **History of Education.** (Not offered in 1938-1939.) Beginning with the theory and practice of ancient and mediaeval periods, emphasis is laid upon political, social, and economic conditions as they have influenced the structure and control of western education. The course closes with the opening of the reformation period. Prereq., 6 hrs. education and Psy. 5. (3)

251. **History of Education in the United States.** The European social, economic, and political influence on colonial life and education. The development and expansion of public education in the United States. Prereq., 3 hrs. education and Psy. 5. (3) Wagner.

252. **History of Secondary Education.** Secondary education in the history of western civilization. Special attention is given to England, France, and Germany. Prereq., 3 hrs. education and Psy. 5. (2) Benz.

253. **History of Education in Ohio.** Prereq., 3 hrs. education and Psy. 5. (3)

254. **Comparative Education.** A course based upon the study of the national school systems of western Europe. Prereq., 9 hrs. education and Psy. 5. (3-6)

255. **Philosophy of Education.** A study of the meaning and educational implications of idealism, pragmatism, and behaviorism and their influence on trends in educational theory and practice. Prereq., 9 hrs. education. (3)

256. **Progressive Education at Home and Abroad.** A study of a move-

ment in education which questions beliefs, judgments, and practices in organized education. Recent biological, psychological, and sociological findings are studied. Prereq., 12 hrs. education and Psy. 5. (3) Beechel.

257. Current Educational Literature. A comprehensive study of current contributions to education. Fee, \$3. Prereq., 6 hrs. education and Psy. 5. (3) Beechel.

KINDERGARTEN-PRIMARY

1. Play and Play Materials. Play and its importance in child development, equipment and play materials, development of organized games. (2) Wilson.

2. Literature for Early Childhood. Children's literature, source material, standards of selection, planning story groups for special occasions, dramatization, and experience in story telling. (3) MacLeod.

101. Activities for Early Childhood. Sources of activities and criteria for judging, planning, and an analysis of them to determine the outcomes in habits, skills, attitudes, appreciations, and knowledge. A comparison of present day use of activities with the formal use of subject-matter. 2 lec. and 2 lab. Fee, \$3. (3) Quick.

201. Kindergarten-Primary Curriculum. The principles and factors underlying the selection and organization of the content and the construction of a curriculum for kindergarten-primary grades. Some phases of curriculum construction. Prereq., 6 hrs. education and Psy. 3 or 5. (3) MacLeod

202. Current Problems in Kindergarten-Primary Education. The articulation of the nursery school, kindergarten, and primary grades; recent movements in the kindergarten-primary field, and investigation in a special field of interest. Prereq., 111, 201 and Psy. 3 or 5. (2) MacLeod.

203. Supervision in Kindergarten-Primary Education. Supervisory activities, the supervisor and teachers in service, observation of teaching, and principles underlying the improvement of teaching. Not open to juniors. Prereq., 6 hrs. education and a major in elementary education. (3) MacLeod.

LABORATORY SCHOOL SUPERVISION

271, 272. Laboratory School Problems. For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Not open to juniors. Prereq., 6 hrs. education and Psy. 5. (2) Class.

273. Supervision of Student Teaching. Provides the novice supervising critic with experience in guiding the work of students who are doing student teaching. The regular supervising critic is directly in charge. Graduate students who have had successful teaching experience are admitted by permission. Prereq., 211 or 232 and or with 271 or 272. (4-6) Beechel, Sias, and supervising critics.

RESEARCH AND SCIENTIFIC TECHNIQUES

281. Educational Statistics. The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, and correlation. Practice in the use of statistical tables and calculating machines. Prereq., 6 hrs. education and Psy. 5. (3) Morton.

282. Advanced Educational Statistics. Non-linear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 281. (3) Morton.

283. Research in Educational Statistics. An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 282 and permission. (2-6) Morton.

284. Research in Education. Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psy. 5. (2-6) Morton, Beechel, Hansen, Benz, Class.

285. Research in Teaching Arithmetic. The work consists of reading, laboratory practice, or research and experimentation. Prereq., 9 hrs. education, 63g, and Psy. 5. (2-6) Morton, Benz.

286. Research in Teaching Mathematics. Qualified graduate students will be given an opportunity to work on special problems pertaining to the teaching of mathematics in the junior or senior high school. Credit to be assigned will be determined by the professor in charge. Prereq., 18 hrs. education and mathematics. (2-6) Morton, Benz.

287. Research in Business Teaching Problems. Prereq., 20 hrs. commerce and permission. (2-8) Reynolds.

288. Techniques of Educational Research. Designed to acquaint students with research techniques and materials in education. Reports of completed research are analyzed and evaluated. Practice is given in selecting and planning a research problem, in selecting the method of procedure, and in collecting and interpreting data. Prereq., 9 hrs. education and Psy. 5. (2) Benz.

391. Seminar in Business Teaching Problems. Prereq., 20 hrs. commerce and permission. (2-10) Reynolds.

395. Thesis. (4-8) The staff.

SCHOOL ADMINISTRATION AND SUPERVISION

141. Visual Education. The value and relative effectiveness of visual aids in school experiences. Practice in the use of representative equipment and materials in classroom procedures on various grade levels. Prereq., 3 hrs. education and Psy. 5. (2) Hansen.

143-144. School Library Administration. The purpose of this course is

to orientate the student in the school library by instruction in its organization, maintenance, planning, and technical work. This course is for the teacher-librarian, and in no sense prepares the student for full time librarianship. Course 144 emphasizes children's literature, book and periodical evaluation. (3) Keating and staff.

203. Supervision in Kindergarten-Primary Education. See Kindergarten-Primary.

240. School Administration. The state, county, and city boards of education, the superintendent, their powers and duties, and the organization and administration of the public school system. Prereq., 3 hrs. education and Psy. 5. (3) McCracken.

242. Child Accounting. Records and reports which should be available for an intelligent understanding of the welfare of the child. Prereq., 3 hrs. education and Psy. 5. (2)

243. The Federal Government and Education. Prereq., 6 hrs. education and Psy. 5. (3)

244. Problems in School Administration. A course treating intensively special problems in school administration. The problems are determined by the interests of the students. Prereq., 9 hrs. education including 230 or 240. (3) Sias.

245. The State in Education. The organization of state boards of education and departments of public instruction and the principles involved in their administration of state school problems. Prereq., 6 hrs. education and Psy. 5. (2) Sias.

246. Supervision of Instruction. The evolution of supervision, outstanding supervisory programs, principles underlying democratic supervision, techniques which promote the growth of the teacher in service. Prereq., 12 hrs. education including 201, 211, or 232. (3) Beechel.

246a. Supervision of Instruction, Laboratory Problems. The course provides actual experience in public school supervision, planning, developing, directing, and evaluating the instruction cooperatively with a group of in-service teachers. Prereq., 246 and 255 or 256. Graduate students and seniors with successful teaching experience are admitted by permission. (2-6) Beechel.

247. The Improvement of the Examination. (Not offered in 1938-1939.) Designed to improve both the objective and essay type of testing. Emphasis is placed upon principles and practice. Tests are constructed and criticized. Practice is given in interpreting test results. Prereq., 5 hrs. education including 113 or 131 and Psy. 5. (2) Class.

248. Vocational Guidance. The various phases of educational and vocational guidance. Prereq., 6 hrs. education and Psy. 5. (2) Sias.

249. Art Supervision and Curricula. Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160a. (2) Way.

SECONDARY EDUCATION

130. **Principles of Secondary Education.** The general purpose of secondary education, relation to other levels of education, content and organization of curricula, and other topics. Not open to first semester sophomores. (3) Benz.

131. **Educational Tests and Measurements.** Standardized and informal new-type tests for the senior high school. Problems involved in the building, administering, scoring, and interpretation of results of tests. Fee, \$2. (2) Class.

230. **High School Administration.** Problems of school and class organization, discipline, grading, curricula, guidance, and extra-class activities in the secondary school. Prereq., 3 hrs. education and Psy. 5. (3) Sias.

231. **The Junior High School.** The development, organization, and administration of the junior high school including objectives, curricula, guidance program, methods of instruction, and student activities. Prereq., 9 hrs. education and Psy. 5. (2) Sias.

232. **The High School Curriculum.** The high school program of studies, the contributions of various subjects, integration, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education including 130. (2) Benz.

SPECIAL EDUCATION

221. **Organization of special Classes.** Need of special education; history of the various classes for sightsaving, crippled, hard of hearing, mentally retarded, and defective in speech; selection and classification of children; cooperation with other departments; case studies and record taking; and direction and after-care of special class children. Prereq., 3 hrs. education and Psy. 5. (2) DeLand.

222. **Diagnosis and Remedial Instruction in Elementary Subjects.** A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with problem children. Prereq., 3 hrs. education and Psy. 5. (2) DeLand.

223. **Curriculum for Special Classes.** Types of curricula for special education, units of work, materials, and subject-matter suited to the mental ability and level, and methods of presentation and handling such units. Prereq., 3 hrs. education and Psy. 5. (3) DeLand.

224. **Mechanism of the Ear and Acoustic Training.** (Not offered in 1938-1939.) A study of the mechanism of the ear, the process of hearing, the causes of deafness, retardation of the hard-of-hearing child, testing of hearing, acoustic training to improve residual hearing. Prereq., 6 hrs. education and Psy. 5. (2)

225. **Theory and Practice in Lip-Reading.** (Not offered in 1938-1939.)

The preparation of lessons for teaching beginners to do lip-reading; a study of the formations and combinations of sound into words and sentences, special work in ear training for recognition of sound defects which occur in speech of deaf children. Prereq., 6 hrs. education and Psy. 5. (2)

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION*

171. Observation and Participation in Kindergarten - Primary Grades. The course should be taken in conjunction with course 172. (3) Sias and supervising critics.

172. Student Teaching in Kindergarten-Primary Grades. Fee, \$4. Prereq., 171 or with 171. (4) Sias and supervising critics.

173. Student Teaching in Kindergarten-Primary Grades. Students specializing in kindergarten do their student teaching in the first and second grades; those specializing in primary grades, in the kindergarten. Fee, \$2. Prereq., 172. (2) Sias and supervising critics.

174. Advanced Student Teaching in Kindergarten - Primary Grades. Fee, \$1 for each credit hour. Prereq., 172 and 173. (2-4) Sias and supervising critics.

175. Observation and Participation in Intermediate Grades. The course should be taken in conjunction with 176. (3) Sias and supervising critics.

176. Student Teaching in Intermediate Grades. Fee, \$4. Prereq., 175 or with 175. (4) Sias and supervising critics.

177. Advanced Student Teaching in Intermediate Grades. Fee, \$1 for each credit hour. Prereq., 176 and senior rank. (2-4) Sias and supervising critics.

178. Student Teaching in Special Education. Fee, \$4. Prereq., 175 or with 175. (4) Sias, DeLand.

180. Observation and Participation in High School, Academic Subjects. Prereq., junior or senior rank. (3) Sias.

181. Student Teaching in High School, Academic Subjects. Fee, \$4. Prereq., 180 or with 180. (4) Sias.

182. Observation and Participation in Special Subjects. Prereq., junior or senior rank. (3) Sias.

Majors in art and music observe largely in the elementary field.

Majors in commerce and industrial arts observe in the junior and senior high schools.

Majors in home economics take the course in conjunction with course 183.

Majors in physical welfare divide the observing time equally between the elementary grades and the high school.

*A complete statement of prerequisites is on page 62.

183. **Student Teaching in Special Subjects.** The subjects are art, commerce, home economics, industrial arts, music, and physical welfare. Fee, \$1 for each credit hour. Prereq., 182 or with 182. (2-4) Sias.

273. **Supervision of Student Teaching.** See Laboratory School Supervision.

TEACHING TECHNIQUES

(Art and Industrial Arts)

60c. **Teaching of Design for Early Childhood.** 1 lec. and 1 lab. Prereq., P. A. Arts 3. (1) Work.

60g. **Teaching of Design for Intermediate and Higher Grades.** 1 lec. and 1 lab. Prereq., P. A. Arts 3. (1) Work, Bedford, Morris.

160h. **Teaching of the Space Arts.** Prereq., P. A. Arts 103, 115, and 117. (2) Way.

160m. **Teaching of Industrial Arts.** (3) McLaughlin.

(Commerce)

161a. **Teaching of Business Subjects.** Prereq., junior or senior rank. (2) Reynolds.

161b. **Teaching of Bookkeeping.** Prereq., Acct. 125. (2) Beckert.

161s. **Teaching of Shorthand.** Prereq., Sec. St. 151 or an eighty-word dictation test. (2) Miller.

161t. **Teaching of Typewriting.** Prereq., Sec. St. 111. (2) Sponseller.

(Dramatic Art)

162h. **Teaching of High School Dramatics.** Sources of dramatic material on the high school level. Methods of casting, staging, and production from the point of view of the secondary school. Organization and function of the dramatic club. Prereq., 4 hrs. dramatic art, 12 hrs. English, or permission. (2) Dawes.

162s. **Teaching of Speech in the Grades.** The various phases of speech pertaining to work in the elementary grades. Assembly programs, oral interpretation, intraclass and interclass debates, platform delivery, and educational dramatics. (2) Dawes.

(Elementary Education)

63a. **Teaching of Reading in Primary Grades.** Period of preparation for reading instruction, the initial period, the period of rapid growth in fundamental attitudes, habits and skills; scientific investigations and their results. (2) Hansen.

63b. **Teaching of Reading in Intermediate Grades.** A study of the

materials of reading, methods and procedures, diagnostic and remedial work. (2) Hansen.

63g. Teaching of Arithmetic in Intermediate Grades. Methods of presenting the subject-matter of the arithmetic curriculum in grades 4, 5, and 6; results of experimental investigation; standardized tests and mechanical drill devices. (3) Morton, Benz.

63p. Teaching of Arithmetic in Primary Grades. Methods of teaching the subject-matter of the arithmetic curriculum in grades 1, 2, and 3; results of experimental studies and of recent developments in educational psychology. (3) Morton, Benz.

(English)

64g. Teaching of Language in the Grades. A study of the content and presentation of composition, grammar, and spelling in grades 3 to 6. Prereq., Eng. 3. (2) Apgar.

164a. Teaching of English in the Senior High School. A study of the content and presentation of poetry, drama, novel, and short story. Prereq., Eng. 4 and junior or senior rank. (2) Wray.

164b. Teaching of English in the Senior High School. A study of the content and presentation of grammar and composition. Prereq., Eng. 4 and junior or senior rank. (2) Wray.

164c. Teaching of Language in the Junior High School. (Correspondence Study only.) A study of the content and presentation of language work in grades 7, 8, and 9. Prereq., Eng. 3. (2) Apgar.

164j. Teaching of High School Journalism. For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing. Attention to preparation of school publicity copy for newspapers. (2) Lasher.

(Foreign Language)

165f. Teaching of French. Prereq., Fr. 102. (2) Noss.

165g. Teaching of German. Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission. (2) Hess.

165o,p. Teaching of French and Advanced French Grammar. (1939-1940) Prereq., 3 yrs. college Fr. or B in Fr. 102. (2-3) Wilkinson.

165r. Teaching of Latin. Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks, and important reference material. Some study of important principles of the language. Prereq., Lat. 103 or permission. (2) Hill.

165s. Teaching of Spanish. (2) Whitehouse, Ondis.

(Geography)—(See Social Sciences)

(Home Economics)—(See Science)

(Journalism)—(See English)

(Mathematics)—(See Science)

(Music)

166b. Teaching of Instrumental Music. Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras. (3) Thackrey.

166d. Teaching of Dances and Games. Dances and games for grades 1-8 and methods of presentation. (1) Danielson.

166f. Teaching of Music in First Six Grades. (3) Danielson.

166g. Teaching of Music in Intermediate Grades. Prereq., Mus. 2. (2) Danielson, Blayney.

166j. Teaching of Music in Junior and Senior High School. (3) Danielson.

166k. Teaching of Music in Kindergarten-Primary Grades. Prereq., Mus. 2. (2) Danielson, Blayney.

166p. Teaching of Class Piano. See Ed. 166s. (1) Witham.

166s. Teaching of Class Stringed Instruments. Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in the piano class work in training school. (1) Thackrey.

166w. Teaching of Class Wind Instruments. See Ed. 166s. (1) Thackrey.

(Physical Welfare)

167a. Teaching of Coaching—Women. Theory and practice of coaching field hockey and basketball. Fee, \$1. (2) Hatcher.

167b. Teaching of Coaching—Women. Theory and practice of coaching volley-ball, soccer, baseball, track and field activities. Fee, \$1. (2) LaTourrette.

167d. Coaching of Baseball. Fee, \$1. (1) Peden.

167e. Coaching of Basketball. Fee, \$1. (2) Grover.

167f. Coaching of Football. Fee, \$1. (2) Peden.

167h. Teaching of Health. Instruction, principles, and curricula used in presenting health information to children of the different school levels. Prereq., P. W. 22. (2) Trepp.

167p. Teaching of Physical Welfare. Physical Education for elementary and secondary schools. Not required of majors. (1) Rhoads.

167s. Teaching of Swimming and Theory—Women. (2) Spencer.

167t. Coaching of Track. Coaching of track and field athletics. Fee, \$1.
(1) Herbert.

(Science)

168a. Teaching of Agriculture. Agricultural instruction suited to rural, village, and city schools. (3) Copeland.

168b. Teaching of Botany. (2) Matheny.

168g. Teaching of General Science. (2) Matheny.

168h. Teaching of Home Economics. Prereq., 6 hrs. home economics.
(2-3) Patterson.

168j. Teaching of Mathematics in Junior High School. (3) Benz.

168m. Teaching of Mathematics in Senior High School. (2) Benz.

168p. Teaching of Physics. (Summer session only.) Prereq., one course in physics. (2)

168s. Teaching of Chemistry and Laboratory Practice. Instruction and practice in laboratory teaching and supervision. Prereq., permission. (2-4) Morton.

168z. Teaching of Zoology. Prereq., Zool. 4 and an additional laboratory course in zoology. (2) Stehr.

(Social Sciences)

169b. Teaching of History in Elementary Schools. (2) Smith.

169g. Teaching of Geography. This course deals with the professionalized subject-matter of geography in the grades and high school. (3) Cooper.

169h. Teaching of History and Civics in Junior and Senior High School.
(2) Smith.

169s. Teaching of Social Science. (2) Jeddeloh.

ELECTRICAL ENGINEERING

1. Engineering Orientation. A consideration of engineering as a profession, a preview of engineering curricula, the legal, social, and political aspects of the profession and the personal and social elements of engineering. (1) Young.

101. Principles of Radio. Preliminary study of electrical circuits, resonance and tuning applications, the vacuum tube, amplifier circuits, the

complete receiver, radio transmitters, antennae and transmission lines. Laboratory work parallels the theory and includes such experiments as measurement of coils and condensers, use of frequency meters, assembling and aligning of receivers, tuning and operation of transmitters, and elementary measurement of radio field intensity. 2 lec. and 2 lab. Fee, \$3. Prereq., Math. 5 and 6. (3) Green.

103. **Practical Electricity.** Elementary principles of electricity. Practical working principles of batteries, generators, motors, heaters, meters, fuses, magnets, transformers, radio, and telephone. Safety rules and regulations. The laboratory gives practice in wiring, soldering, and household appliance repairing. 1 lec. and 2 lab. Fee, \$2. (2) Bundy.

106. **Commercial Radio.** Detailed study of the principles, construction, and operation of radio transmitters and receivers, including both short wave amateur type and the commercial broadcast station. Students practice adjusting and operating radiophone transmitters. Inspection trip to some commercial station. 1 lec. and 3 lab. Fee, \$2. Prereq., 101 or permission. (2) Green.

125. **Acoustics.** Principles of sound generation and propagation in free space and in enclosures, methods of sound measurement, characteristics of speakers, microphones and receivers, design of horns, acoustics of auditoriums, theaters, and broadcasting studios, public address systems. Laboratory includes measurements with cathode ray oscillograph, sound intensity meters, standard oscillators, and acoustic bridges. 2 lec. and 2 lab. Fee, \$3. Prereq., Physics 113, 114 and Math. 118. (3) Green.

127. **Electrical Engineering.** A study of direct and alternating current motors and generators, starting devices, electric wiring, distribution and transmission systems, transformers, illumination systems, meters, and switching. For non-electrical students. 2 lec. and 2 lab. Fee, \$3. Prereq., Physics 3, 4 or 113, 114. (3) Green.

133. **Illuminating Engineering.** Principles of light and radiation, various light sources, their characteristics and efficiencies, principles and practice of photometry, design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 1 lec. and 2 lab. Fee, \$2. Prereq., Physics 114 and Math. 118. (2) Green.

137. **Electron Tubes in Industry.** Industrial applications of thermionic tubes in devices such as the grid-controlled rectifier, stroboscope, time delay relay, telemeter, voltage regulator, photo-electric counter and traffic controller. Prereq., 101 or 106. (3) Green.

143-144. **Electrical Engineering.** Direct current electrical and magnetic circuit analysis, D. C. machine characteristics and operation, A. C. circuits including complex circuit analysis and wave analysis. Prereq., Physics 113, 114 and Math. 118. (4) McClure.

145-146. **Dynamo and Measurements Laboratory.** Electric and magnetic measurements and the characteristics of D. C. machinery. 6 lab. Fee, \$3. Prereq., with 143-144. (3) McClure and assistants.

149-150. Electrical Measurements Theory. Fundamental theory of the potentiometer, galvanometer, magnetic oscillograph, permeameter, methods of calibrating ammeters, voltmeters, wattmeters, watt-hour meters, both D. C. and A. C. instruments. Methods of measuring resistance, inductance, capacitance; a study of transients and wave analysis, resonance phenomena. Prereq., with 143-144. (2) McClure.

202. Applied Mechanics (Kinematics). A course in engineering mechanics treating the general subjects of kinetics, kinematics, work, and energy. Prereq., Math. 118. (3) Bundy.

203-204. Communication Engineering and Advanced Circuit Analysis. A study of the fundamentals of communication engineering including radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, vacuum tubes, amplifiers, modulators, radiation and applications to radio and telephone apparatus. Laboratory follows theory closely. 3 lec. and 2 lab. Fee, \$4. Prereq., 144. (4) Green.

211-212. Advanced Radio Laboratory. Special problems of current interest in the field of radio engineering. 2-4 lab. Fee, \$1 for each credit hour. Prereq., 101 or 203. (1-2) Green.

229. Engineering Thermodynamics. Energy equations, entropy, properties and thermodynamic processes of gases, compressed air engines, the Otto and Diesel cycles and engines, the properties of steam engine and vapor cycles, steam engines and turbines, principles of refrigeration. Prereq., Physics 113, 114 and Math. 118. (3) Lausche.

230. Heat Power Engineering. Solid, liquid, and gaseous fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler feed pumps, steam engines and turbines, condensers, gas and oil engines. Prereq., 229 or permission, and Math. 118. (3) Lausche.

232. Thermodynamics Laboratory. Calibration of testing instruments and the proximate analysis of coal. Tests on the steam engine, turbine, boilers and feed pumps at the heating plant. 2 lab. Fee, \$1. Prereq., with 230. (1) Lausche.

235. Electrical Transmission of Power. Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbole solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 144. (3) Green.

243-244. Electrical Engineering. Characteristics and performance of A. C. machines including static transformers, synchronous generators, synchronous and asynchronous motors, advanced circuit analysis. Prereq., 144 and 146. (4) Young.

245-246. Electrical Engineering Laboratory. A. C. circuit measurements, transformer grouping and testing, measurement of and predeter-

mination of characteristics of A. C. machinery. 4 lab. Fee, \$2. Prereq., with 243-244. (2) McClure and assistants.

248. **Electrical Designs.** Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 243. (3) Green.

270. **Engineering Thermionics.** A comprehensive theoretical treatment of the fundamentals of thermionics and of the general properties of thermionic tubes with application to engineering. Prereq., Physics 114, Math. 118, and 6 hrs. of radio or communication. (3) Green.

291-292. **Seminar in Electrical Engineering.** Prereq., 15 hrs. (1) The staff.

301-302. **Advanced Acoustics.** A study of acoustics, based on the fundamental dynamical theory of sound. General equations of sound propagation are developed and applications made to engineering practice. Prereq., Physics 113, 114, and Math. 118. (2) Green.

310. **Electrical Station Design.** The application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Power plant visitation and reports. Prereq., 229, 230, and 244. (3)

391. **Advanced Seminar in Electrical Engineering.** Prereq., 15 hrs. (1) The staff.

395. **Thesis.** (6) The staff.

ENGLISH

The major requirement in English for the A. B. degree includes: Eng. 3-4, 101, 102 (12); American literature (3); and (11) from three of the following periods: Early and Middle English (2 or 3), sixteenth and seventeenth centuries (3-6), eighteenth century (2-4), and nineteenth and twentieth centuries (3-6); and electives.

1. **English Composition.** This course places emphasis upon the grammatical elements of English composition. It is designed for students whose grades in the proficiency tests indicate a need for additional drill in spelling, punctuation, and sentence structure. Credit in this course admits the student to Eng. 4. (3) The staff.

3-4. **English Composition.** A course in the fundamentals of composition, the structure of the paragraph, and the writing of exposition. Students who make unusually high grades in the proficiency tests are excused from Eng. 3 and allowed to enter Eng. 4. Eng. 4 places emphasis on the study of models of argumentation, description, and narration. (3) The staff.

10. **Juvenile Literature.** A study of myths, fables, fairy stories, folklore, and one epic. Language work. (2) Kahler.

64g. **Teaching of Language in the Grades.** See Ed. — Teaching Techniques.

101, 102. **Sophomore English Literature.** The course is devoted to a study of the works of eight or ten of the chief English authors from the beginnings of English literature to the middle of the eighteenth century. Course 102 begins with the middle of the eighteenth century and continues the study to the present. Prereq., 4. (3) The staff.

111. **The Chief American Writers.** A study of representative material, prose and poetry, selected from Franklin, Freneau, Irving, Cooper, Bryant, Emerson, Thoreau, Hawthorne, Whittier. Prereq., 4. (3) The staff.

112. **The Chief American Writers.** A continuation of course 111. Emphasis is placed upon selected prose and poetry from Poe, Holmes, Longfellow, Lowell, Whitman, Mark Twain, Henry Adams, Lanier, William James. Prereq., 4. (3) The staff.

114. **Engineering English.** An application of the principles of English to the technical exposition of engineering processes, problems, reports, abstracts, explanation; practice in writing business letters and letters of application. Prereq., 4. (2) Harrison.

130. **English Prose of the Nineteenth Century.** Prereq., 102. (3) The staff.

135. **The English Bible.** A study of the early narratives and prophecies of the Old Testament as masterpieces not only of world literature but of English literature. Prereq., 4. (2) Slutz.

136. **The English Bible.** The King James version of the later prophetic and poetic books of the Old Testament, of the proverbs and essays, and of the sayings and parables of Jesus are read as living literature. Prereq., 4. (2) Foster.

141. **European Drama.** Readings in English of typical plays by Sophocles, Plautus, Marlowe, Jonson, Moliere, Farquhar, Goldsmith, Sheridan, and Ibsen. Prereq., 4. (2) Peckham.

143, 144. **Comparative Literature.** (1939-1940) A course introducing the student to the most significant productions of Greece, Rome, Italy, Spain, France, Germany, and England. Whenever feasible, lectures on a foreign literature are delivered by a professor of that literature. Prereq., 4. (3) Heidler.

150. **The Short Story.** (1939-1940) A historical and critical study of the short story. Lectures and extensive reading in short story classics. Prereq., 4. (2) McQuiston.

164a. **Teaching of English in the Senior High School.** See Ed.—Teaching Techniques.

164b. **Teaching of English in the Senior High School.** See Ed.—Teaching Techniques.

171. **Sophomore Exposition.** A course designed to offer practical experience in the writing of essays and reviews. Frequent writing by the student is supplemented by the study of meritorious examples from experienced writers. Prereq., 4. (3) Heidler.

175. **Creative Writing.** The work is adapted to the individual and instruction is largely by conference. Prereq., 4 and permission. (2) Mackinnon.

201, 202. **Shakespeare.** A study of the comedies, Roman historical plays, and tragedies. Prereq., 12 hrs. (3) McQuiston.

203. **Sixteenth Century Literature.** A study of the chief poets and prose writers. Prereq., 12 hrs. (3) Wray.

204. **Elizabethan Drama, 1550-1642.** A study of the English drama from 1550 to 1642, thus including the predecessors, the contemporaries, and the immediate followers of Shakespeare. Prereq., 12 hrs. (3)

205. **Seventeenth Century Literature, 1603-1660.** (Exclusive of the drama). A study of the more significant writers of prose and poetry together with the main cultural and historical currents of the period. Prereq., 12 hrs. (2)

207. **Milton.** Prereq., 12 hrs. (2) Foster.

213. **English Prose Fiction.** A study of the development of the English novel through different periods. Prereq., 12 hrs. (3) Mackinnon.

214. **American Prose Fiction.** The development of the American novel from the colonial period to the present, with major emphasis upon late eighteenth century and nineteenth century productions. Prereq., 12 hrs. (3) Heidler.

215, 216. **Eighteenth Century Literature.** Course 215 presents the prose and poetry of the age of Pope; course 216, from Johnson to the close of the century. Course 216 is not open to those who have had 218. Prereq., 12 hrs. (2) Wilson.

218. **Eighteenth Century Romanticism.** The course traces the beginnings of the movement with the Spenserians, Miltonic School, Chatterton, Ossian, the Gothic Romance and others. Not open to those who have had 216. Prereq., 12 hrs. (2) Heidler.

221. **Wordsworth and Coleridge. (1939-1940)** A study of the principal poems of both poets, with a less intensive survey of the rest of their work. Lectures on the poetical and philosophical theories of the two poets. Prereq., 12 hrs. (2) McQuiston.

224. **Continental Novel.** Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prereq., 12 hrs. (2) Lash.

225. **Recent British and American Poetry.** A careful study of ten or twelve authors who have made distinctive contributions to the poetry of England and America. Prereq., 12 hrs. (3) Foster.

226. **Studies in American Literature.** A study of the social and cultural backgrounds of American literature. Prereq., 12 hrs. (3) Foster.

231. **Later American Life and Literature.** A study of the more important currents in American life and thought which have influenced the national literature since the Civil War. Prereq., 3 hrs. of English or American literature. (2) McQuiston.

234. **Modern Continental Drama.** (1939-1940) A study of types and tendencies in European continental drama since Ibsen. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Strindberg, Brieux, Hauptmann, Maeterlinck, Rostand, Molnar, Chekov, Andreyev, Capek, and Vildrac. Prereq., 12 hrs. (2) Peckham.

236. **Modern Drama in English.** This course alternates with course 234. A study of types and tendencies in British, Irish, and American drama since 1880. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Jones, Pinero, Wilde, Galsworthy, O'Neill, Howard, Rice, and Green. Prereq., 12 hrs. (2) Peckham.

240. **Byron, Shelley, and Keats.** A study of the most important poems and of the relation of the poets to their age. Prereq., 12 hrs. (2) Peckham.

242. **History of Literary Criticism.** A rapid study of the development of critical theories from ancient Greek times to the mid-nineteenth century. Prereq., 12 hrs. (2) Wilson.

245. **Tennyson and Browning.** A study of the two major Victorian poets, their backgrounds, and some of their most representative poems. Prereq., 12 hrs. (3) Peckham.

250. **Books of the Season.** An extensive reading course in the best books of the season. Prereq., 12 hrs. (2) Mackinnon.

254. **Literary Biography.** (1939-1940) A study of some of the important literary biographies and a consideration of tendencies in current biographical literature. Prereq., 12 hrs. (2) Wilson.

258. **Middle English.** (1939-1940) A course designed to acquaint the student with the literature of the Middle Ages (exclusive of Chaucer) together with the changing language. Prereq., 12 hrs. (3) Wray.

261. **English and American Popular Ballads.** (1939-1940) Ballads, folk songs, and carols are studied not only with reference to their origin, nature, and transmission, but in connection with folk literature generally, with reference to their history and cultural significance. Prereq., 12 hrs. (2) Foster.

270. **Spenser.** A study of the poems of Spenser with emphasis on *The Faerie Queene*. Prereq., 12 hrs. (2) Wray.

271. **Dante (in English).** Prereq., 12 hrs. (2) Wilson.

273. **Chaucer.** A careful study of the life and poetry of Chaucer by means of lectures, translations, and seminar reports. Prereq., 12 hrs. (3) Heidler.

275. Anglo-Saxon. An introductory course in the language and literature of early English. Prereq., 12 hrs. (2-3 as scheduled) McQuiston.

276. Beowulf. Readings and interpretation of the poem and consideration of its genesis, epic characteristics, and literary qualities. Prereq., 12 hrs. (2-3 as scheduled) McQuiston.

277. Thesis Writing. A course for graduate students in all departments with special attention to the form and organization of research papers in the field of interest. Prereq., 12 hrs. (1) Caskey.

291. Seminar in English. An introduction to literary research. Students are given an introduction to bibliography and methods of research in literary history. Minor problems are assigned. Prereq., 18 hrs. (2) Caskey.

395. Thesis. (4-8) The staff.

FINANCE

(See Commerce)

FRENCH

(See Romance Languages)

GEOGRAPHY AND GEOLOGY

The major requirement in geography and geology for the A.B. degree is 30 semester hours including Geog. 1, 2, 125, 126, and approved electives.

1, 2. Principles of Geography. A study of the general principles of physical, regional, and economic geography. Geog. 2 stresses general world geography. 3 lec., 1 lab., and field trips. Fee \$3. (3) Cooper.

5. Commercial and Industrial Geography. A study of the world's major products and their distribution and consumption. Not open to students who have had Mkt. 15. (3) Dow.

102. Geography of North America. The course develops in detail the geography of the natural resources of the continent and the geographic environment which influences them. (3) Cooper.

105. Geography of Latin America. See Geog. 102 for description. (3) Cooper.

108. Geography of Europe. See Geog. 102 for description. (3) Dow.

112. Geography of Asia and its Islands. See Geog. 102 for description. (3) Dow.

115. Geography of Africa and Australia. See Geog. 102 for description. (2) Dow.

125-126. Geology. Geog. 125 is devoted to physiographic geology;

course 126 to historical geology. 3 lec., 1 lab., and field trips. Fee \$3. (3) Dow.

127. Rocks and Minerals. An elementary course in rocks and minerals. 2 lec. and 2 lab. Fee \$3. (3) Dow.

131. Geography of Ohio. The geography of Ohio is developed from the regional point of view and by means of the problem method. (2) Cooper.

132. Conservation of Natural Resources. A study of the vital problems of the conservation of soils, minerals, forests, wild life, and inland waters. (2) Dow.

140. Geography of Agriculture. The work emphasizes the influences of geographic environment on agricultural activities, particularly those of the United States. (3) Dow.

145. Geographic Influences in American History. A course developed to show the importance of geographic factors in the growth of our nation. (3) Dow.

150. Geography and Environment. (Advanced principles of geography.) A course in the aspects of geography which have to do with the adjustments of man to his natural environment throughout the world. (3) Cooper.

169. The Teaching of Geography. See Ed. — Teaching Techniques.

201. Weather and Climate. The atmosphere and its processes. Weather forecasting and the causes and distribution of climates. 3 lec. and 1 lab. Fee, \$3. Prereq., 6 hrs. (3) Dow.

203. Economic Geology. A study of the materials of the earth's crust which are of service to mankind. Prereq., 126. (3) Dow.

210. Political Geography. A study of the geography of boundary lines, of colonial policies, and of the geographic principles which influence international relations and problems. Prereq., 6 hrs. (3) Dow.

211, 212. Field Geography. (Post session only.) Field trips consisting of three days lecture on the campus and fifteen days of field work by bus. Inter-relationships between man and his natural environment studied through actual field observation and contact. Geog. 211 goes through New England and Canada and Geog. 212 through Michigan, Wisconsin, and Minnesota. Geog. 212 will be offered in the post session of 1938. Prereq., 6 hrs. (3) Dow.

215. Cartography and Graphics. The elementary principles of map drawing and graph making. Prereq., 12 hrs. (1-2) The staff.

381. Research in Geography. Prereq., 15 hrs. (1-2) The staff.

GERMAN

1-2. Beginning German. The course includes instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose. (4) The staff.

101-102. Intermediate German. The course includes the study of various short poems and stories of literary excellence, grammatical review, and work in oral and written composition. The drama, especially Wilhelm Tell, is included in course 102. Prereq., 2 or 2 yrs. high school German. (4) The staff.

105, 106. Scientific German. A reading course designed to give the student familiarity with German scientific terms. Prereq., 102 or 101 with a grade of A or B. (2) Mueller.

109-110. German Grammar and Composition. Prereq., 102 or 3 yrs. high school German. (2) Hess.

121, 122. Germany and the Germans. The institutions, customs, and legends of the German people are studied. A course in modern German prose. Prereq., 102, or 101 with a grade of A, or 3 yrs. high school German. (2) Hess.

165g. Teaching of German. See Ed. — Teaching Techniques.

201, 202. Survey of German Literature. Prereq., 102. (3) Hess.

211, 212. Modern German Drama. (1939-1940) A study of the German drama of the nineteenth century and the reading of the more important plays connected with the various movements. Prereq., 102 or 4 yrs. high school German. (3) Hess.

213. Classical German Drama. (1940-1941) Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. Prereq., 102. (3) Hess.

214. Goethe's Faust. (1940-1941) A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 213. (3) Hess.

219, 220. The German Short Story. A rapid reading course designed to acquaint the student with this phase of modern German literature. Prereq., 102. (2) Krauss.

231, 232. Writing and Speaking German. A course in oral and written composition for students desiring to teach or speak German. Prereq., 110. (2) Mueller.

301. History of the German Language. An introduction to the study of Germanic philology. Prereq., 10 hrs. beyond 102. (2) Hess, Mueller.

310. Gothic. A study of the phonetics, morphology, and syntax of the Gothic language, accompanied by the reading and translating of portions of Ulfilas' Gothic Bible. Prereq., 10 hrs. beyond 102. (3) Hess, Mueller.

395. Thesis. (4-8) The staff.

GOVERNMENT

1, 2. American Government. The American political system, including national, state, and local governments. (3) Hoover, Smith, Morrison.

101, 102. Comparative Government. A comparison of the American and European systems of government, including organization, procedure, popular representation, and effect upon social and economic conditions. (3) Smith.

105. Current Political and Social Problems. A consideration of current problems of a political, social, and economic nature to develop an understanding of what is happening and to establish the habit of reading regularly good newspapers and periodicals. (2) Smith.

202. Constitutional Law. Prereq., 6 hrs. government or history. (2) Hoover.

203. Municipal Government. The development, organization, and politics of city government; municipal administration including finance, health, utility regulation, city planning, and municipal ownership. Prereq., 6 hrs. (2-3 as scheduled) Smith.

205. American Political Parties. The origin and growth of national parties, influence of economic and social conditions on party policy, and recent developments. Prereq., 6 hrs. (3) Hoover.

216. International Relations. The foundations of international relations, including nationalism, imperialism, racial and economic factors; the settlement of international disputes; and the international policies of the United States. Prereq., 6 hrs. (2-3 as scheduled) Smith.

223, 224. International Law. Prereq., 6 hrs. (2) Hoover.

229. Current International Problems. An introduction to international relations through world problems of current interest. Prereq., 6 hrs. government or history. (3) Volwiler.

231, 232. European Governments. The government and politics of the major European countries, with the emphasis on basic principles and theories. Prereq., 6 hrs. government or history. (3) Jones.

241. American Foreign Policy. The diplomatic history of the United States since independence, with an introduction to the Department of State and general diplomatic practices. Prereq., 6 hrs. government or history. (3) Morrison.

243. American Political Thought. Early political ideas underlying the political institutions in the United States, and the development of political thought to the present. Prereq., 6 hrs. (2) Smith.

248. Introduction to Public Administration. The place of administration in modern government, problems of organization and control, determination of administration areas, personnel management, development of bureaucracy, public budgeting, politics and administration in relation to government planning. Prereq., 6 hrs. (2) Smith.

301. Problems in Government. Prereq., 15 hrs. government or history.
(1-3) The staff.

391. Seminar in Government. Prereq., 15 hrs. government or history.
(1-3) The staff.

395. Thesis. (4-8) The staff.

GREEK

(See Classical Languages)

HEALTH

(See Physical Welfare)

HISTORY

1, 2. A Survey of European Civilization. The development of European civilization from the decline of the Roman Empire to the present time with a consideration of its economic, social, intellectual, cultural, and political phases. (3) Volwiler, Jones, Richardson.

101. English History to 1485. (2) Richardson.

102. English History since 1485. (2) Richardson.

110. History of United States to 1861. (3) Hoover, Morrison, Field.

111. History of United States since 1861. (3) Hoover, Morrison, Field.

112. History of Greece. (2) Brokaw.

113. History of Rome. (2) Brokaw.

115. The Old South. The South to 1860. The plantation regime in the United States. (3) Morrison.

116. The New South. The development of the South since 1861. (3) Morrison.

132. History of Ohio. (2) Hoover.

141, 142. Hispanic America. An introductory course in Hispanic American history. (3) Johnston.

169b. Teaching of History in Elementary Schools. See Ed. — Teaching Techniques.

169h. Teaching of History and Civics in Junior and Senior High Schools. See Ed. — Teaching Techniques.

203. English History, Tudor Period. Prereq., 6 hrs. (2) Jones.

204. English History, Stuart Period. Prereq., 6 hrs. (2) Jones.

211. **French Revolution and Napoleonic Era, 1789-1815.** Prereq., 6 hrs. (3) Jones.

212. **Europe in the Nineteenth Century.** A study of the development of England, France, Germany, Italy, and Russia, and their international relations. Prereq., 6 hrs. (3) Jones.

221. **The World War, 1914-1918.** Prereq., 6 hrs. (2) Richardson.

222. **Europe since 1918.** Prereq., 6 hrs. (2) Richardson.

230. **History of Russia.** Prereq., 6 hrs. (3) Richardson.

235. **History of Canada.** Prereq., 6 hrs. (2) Hoover.

241. **The British Empire.** The evolution of the British Empire to the beginning of the twentieth century, with special emphasis on the development of colonial policy, imperialism, the growth of crown colonies, colonial reform, and the growth of nationalism in the self-governing colonies and India. Prereq., 6 hrs. (3) Richardson.

242. **The British Empire in the Twentieth Century.** Later developments in the British Empire, including a survey of the organization and structure of the Third Empire, the achievement of Dominion status and the evolution of the British Commonwealth of Nations. Prereq., 6 hrs. (3) Richardson.

243. **Mediaeval History.** A study of the social, economic, and cultural forces of the Middle Ages, with particular emphasis upon such major movements as the development of the mediaeval papacy, monasticism, feudalism, universities, the Crusades, commerce and money economy, and the Renaissance. Prereq., 6 hrs. (3) Richardson.

245. **Imperialism and World Politics.** Prereq., 6 hrs. (3) Volwiler.

250. **Provincial America, 1688-1763.** Prereq., 6 hrs. (3) Morrison.

251. **Sectional Controversy, 1829-1850.** Prereq., 6 hrs. (3) Morrison.

253. **The United States, 1850-1877.** Changes in national life as political control shifted from agriculture to industry. Prereq., 6 hrs. (3) Morrison.

254. **Contemporary United States.** The United States since 1900, with emphasis on recent developments. Prereq., 6 hrs. (3) Morrison.

255. **Constitutional History.** The Constitution of the United States: its origin, formation, and ratification. Prereq., 6 hrs. (2) Hoover.

256. **The Emergence of Modern United States. 1877-1900.** Social and intellectual conditions, agrarian unrest, rise of large corporations and their regulation, railroad building, tariff policies during the Harrison-Cleveland era, the Spanish-American War, and the drift toward imperialism and world power. Prereq., 6 hrs. (3) Volwiler.

257. **The Westward Movement.** The expansion from the Atlantic Coast to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West,

rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs. (3) Volwiler.

258. **Statesmen of the United States.** A study of the lives of leading Americans. Prereq., 6 hrs. (2) Hoover.

301. **Historiography.** Bibliographical guides, historical periodicals, schools of historical interpretation, representative historians and their writings, introduction to the technique of historical research and thesis writing. Prereq., 15 hrs. (2-3 as scheduled) Volwiler.

303. **Problems in History.** Intensive individual work either in research or in systematic reading along the lines of a student's special interest under the supervision of a member of the staff. Prereq., 15 hrs. and permission. (1-6) The staff.

391. **Seminar in History.** Reports based upon original research with group discussion and criticism. Prereq., 15 hrs. and permission. (1-6) The staff.

395. **Thesis.** (4-8) The staff.

HOME ECONOMICS

CLOTHING AND TEXTILES

1. **Clothing Selection and Construction.** A study of essential factors entering into a wise choice of clothing for the family. Problems in constructing simple garments. 1 lec. and 4 lab. Fee, \$3. (3) Morse.

4. **Clothing Appreciation.** Clothing problems of the college girl, psychology of clothing, good taste in dress. How to plan, purchase, and care for a satisfactory but economical wardrobe. Construction of clothing for the individual. 1 lec. and 4 lab. Fee, \$3. (3) Morse.

110. **Textiles.** A study of textiles as to fiber, manufacture, use, and desirability. Hand loom weaving problems. 2 lec. and 2 lab. Fee, \$3. (3) Morse.

211. **Economics of Clothing.** Clothing study relative to market quality, cost, creative factors, fashion trends, standardization, and textile legislation. Construction of garments from wool and silk. 2 lec. and 2 lab. Prereq., 1 or 4, and 110. (3) Morse.

212. **Creative Textile Problems.** Students are given an opportunity to develop original ideas in textiles, garment designs, decorations. Prereq., 110 and 3 hrs. art. (2-4) Morse.

215. **History of Costume and of Textiles.** Brief study of costume and textiles through the ages, with laboratory coordination in stage costumes and figurine dressing. 1 lec. and 2 lab. Prereq., 1 or 4, and 110. (2) Morse.

216. **Clothing Design and Construction.** Original designs are developed

and draped. Construction problem in tailoring. 6 lab. Fee, \$3. Prereq., 1 or 4, and 110. (3) Morse.

218. **Textile Analysis.** Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 110 and 3 hrs. chemistry. (3) Morse.

395. **Thesis.** (4-8) Phillips, Morse.

FAMILY RELATIONSHIPS AND CHILD DEVELOPMENT

271, 272. **Child Development.** A study of the child with reference to the problems of parents. H. Ec. 271 deals with the physiological development and the physical care and health habits of the child. H. Ec. 272 deals with the child's mental health, social and emotional development, and with parental techniques for the guidance of young children. 1 lec. and 2 hrs. nursery school observation. Prereq., 21 or 22, 1 or 110, or 6 hrs. psychology. (2) Justin, Snyder.

273. **Family Relationships.** A study of the functioning of the successful family and the factors that effect its establishment and maintenance. Prereq., 272, 3 hrs. sociology, and 3 hrs. psychology. (3) Justin.

377. **Special Problems in Family Relationships.** An intensive study of a problem in family relationships. Prereq., 272 and 273. (2) Justin.

379. **Special Problems in Child Development.** An intensive study of a phase of child development or a problem in child guidance. The nursery school may be used as a laboratory if desired. Prereq., 272. (2) Justin, Snyder.

395. **Thesis.** (4-8) Phillips, Justin.

FOODS AND NUTRITION

21. **Foods and Nutrition.** Energy, protein, mineral, and vitamin requirements. Cost in relation to food value. Planning, preparing, and serving well balanced meals. Social customs relating to food service. 1 lec. and 4 lab. Fee, \$3. (3) Patterson.

22. **Economics of Foods.** Food markets and marketing problems from the standpoint of the consumer. Planning and preparing meals for various budget levels. Study of time element, amount of work, and equipment involved in food preparation. 1 lec. and 4 lab. Fee, \$3. (3) Patterson.

222. **Experimental Cookery.** Experimentation, investigation, and research in methods of cookery. Individual or group work on selected topics. 1 lec. and 4 lab. Fee, \$3. Prereq., 21 or 22, and 3 hrs. chemistry. (3) Patterson.

225. **Dietetics.** Fundamental principles of nutrition based upon the nutritive value of foods and nutritive requirements of man. Practical appli-

cation of these principles to the feeding of individuals and families under varying physiological, economic, and social conditions. 2 lec. and 2 lab. Fee, \$3. Prereq., 21 or 22, and 3 hrs. chemistry. (3) Phillips.

227. **Quantity Cookery.** Institutional and commercial food problems. Field work in college dormitories, cafeterias, and cooperating institutions. 1 lec. and 4 lab. Prereq., 21 or 22, and 222 or 225. (3) Phillips, Swanson.

228. **Recent Developments in Food and Nutrition.** Reports, discussions, and reviews of scientific literature. Prereq., 225. (3) Phillips.

229. **Nutrition in Disease.** Adaptation of diet to disorders of nutrition. The causes, effects, and extent of malnutrition. Opportunity for practical work in these fields. 2 lec. and 2 lab. Fee, \$2. Prereq., 225. (2) Phillips.

241. **Nutrition Work with Children.** Relation of nutrition to growth and development of children. Methods for improving the nutrition of children through the school and other organizations. Prereq., 225. (2) Phillips.

242. **Institutional Buying.** Problems in the planning and equipment of institutions. Study of floor plans with relation to needs of various services; current procedures in large quantity food purchasing. Prereq., 21 or 22, and 32. (3) Phillips, Swanson.

248. **Institutional Management.** Organization and management problems in residence halls, lunch rooms, hotels, and hospital dietary departments. Personnel problems, financial statements, operation expenses, food and budgetary control. Observation in various types of institutions. Prereq., 21 or 22, and 32 or 251. (3) Phillips, Swanson.

333. **Special Problems in Chemistry of Foods and Nutrition.** A study of a selected problem in the chemical properties of food materials and the effect of cooking processes on the nutritive value of foods. Prereq., 225. (3) Phillips.

395. **Thesis.** (4-8) Phillips, Patterson.

GENERAL HOME ECONOMICS

51. **Orientation in Home Economics.** History of home economics. The value of home economics in education for personal, home and family living, homemaking, and vocational training. The place of home economics in the present organization of the school curriculum. (2) Phillips, assisted by specialists in each field.

55, 56. **Household Arts for the Elementary School.** H. Ec. 55 treats of the spending of money as it pertains to general budgeting, and the study of nutrition, foods, textiles and clothing in relation to the elementary school child. H. Ec. 56 pertains to personal income and expenditures and the study of nutrition and foods in relation to the individual. Consumer problems in the purchase of clothing. Correct grooming and personal appearance. 4 lab. Fee, \$2. (2) The staff.

168h. **Teaching of Home Economics.** See Ed. — Teaching Techniques.

200. **Problems in Home Economics.** Students are required to plan and complete a problem in one of the specialized fields of home economics. Prereq., 6 hrs. in home economics and junior rank. (2-4) The staff.

250. **Special Problems in the Teaching of Home Economics.** Opportunity for individual selection of problems. Prereq., Ed. 168h. (3) Patterson.

251. **Home Management.** A study of the economic use of time, energy, and money in the successful functioning of a home. Prereq., 21 or 22, and 32. (2) Justin.

253. **Home Management Laboratory.** Residence in the home management house for one half semester provides managerial experience in the use of time, energy, and money in the modern household. Prereq., 21 or 22, and 32. (2) Justin.

254. **Home Economics in Adult Education.** Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for home and family life. Prereq., 251 and 253, 271 or 272, and 10 hrs. education or psychology. (3) Justin.

256. **Economics of Consumption.** Consumer buying problems; family income and expenditure; expenditures as measures of standards of living, consumer demand; and the effects of consumption on the economic welfare of society. An opportunity for special study in the field of major interest and for the application of the results of these studies to practical consumer problems. Prereq., 21 or 22, 1 or 110, or 6 hrs. economics and marketing. (3) Phillips.

257. **Consumers' Cooperation.** Development of consumers' cooperation in foreign countries and in the United States, cooperative education, and the effect on family economy. Prereq., 6 hrs., or 6 hrs. economics and marketing. (3) Phillips.

258. **Special Problems in Household Economics.** Individual investigation in standards of living, family expenditures, structure of the retail market, and methods for increasing efficiency in purchasing. Prereq., 256. (3) Phillips.

351. **Special Problems in Home Economics.** Students select special problems for individual research under the supervision of a member of the staff. The work of the course is devoted to the planning, executing, and testing of results of individual problems of research. Prereq., 18 hrs. home economics. (2-8) The staff.

352. **Special Problems in Home Management.** An intensive study of the efficient management of time, energy, or money in the home. Prereq., 251 and 253. (2-3) Justin.

395. **Thesis.** (4-8) The staff.

THE HOUSE AND ITS EQUIPMENT

32. Household Equipment. Selection, cost, and care of household equipment. Minimum standards, grades, and tests of household equipment are studied. 2 lec. and 2 lab. (3) Phillips.

231. Home Planning. The house and its furnishings from an historical, artistic, scientific, and practical standpoint. Problems in the selection and use of furniture, textiles, and accessories to fit the economic and social needs of the home. Field trips. 2 lec. and 2 lab. Fee, \$3. Prereq., 1 or 110, and 3 hrs. art. (3) Snyder.

234. Household Engineering. Operation and maintenance of household equipment. A critical analysis of the use of equipment to establish standards for effective use. Survey of agencies offering services in home-making. Prereq., 21 or 22, and 32. (3) Phillips and specialists in related sciences and manufacturing fields.

238. Housing and Community Welfare. History of the housing movement. Family and community living conditions as effected by housing regulation and legislation. City planning and zoning. Trends in American and foreign housing. Prereq., 231, 251, and 253. (3) Morse.

395. Thesis. (4-8) Phillips.

INDUSTRIAL ARTS

The requirements for a major in industrial arts include the following: C.E. 2, Ind. Arts 2, 7, 8, 109, 116, 117, 121, 124, 141, 142, 212, and 226. Additional courses are determined by the requirements for the degree of A.B., B.S., or B.S. in Ed.

INDUSTRIAL TECHNIQUES AND ARTISTIC SKILLS

6. Wood Turning. Instruction is given in the care and use of lathes and tools. The various exercises and kinds of wood that are used in turning. 4-6 lab. Fee, \$2. (2) Paige.

8. General Shop. The laboratory offers experience and information in mechanical drawing, electricity, metal and wood working. 1 lec. and 4 lab. Fee, \$3. (3) Kinison.

9. Craft and Hobby Work. Work in wood, iron, brass, copper, leather, reed, raffia, plastics, fibers, and other materials is offered. Fee, \$2. (2) Kinison.

105. Materials and Finishes. A study is made of the different materials and finishes that are generally used in the industrial arts shop, their sources, manufacture, and application. (3) McLaughlin.

109-110. Cabinet Making. Paneling, veneering, drawer construction, framing, and door fitting. The student works from blue prints and drawings. As the student advances, a difficult cabinet is constructed. 9 lab. Fee, \$3. Prereq., 2. (3) Paige.

116. Constructive Design. Practice in free-hand sketching. Originality stressed in the designing and studying of suitable school shop problems. A study of the outstanding periods and master designers. Prereq., mechanical drawing. (2) Paige.

117. Wood Shop and Machine Maintenance. Circular, band, hand saw fitting, band saw brazing and grinding, general repair. Sharpening of tools, lubrication, and adjustment of wood working equipment. 1 lec. and 2 lab. Prereq., 109. (2) Paige.

121. Pattern, Forge, and Foundry. A study of processes, methods, equipment, and organization of these shops as found in industry, with three or more problems in each shop. 1 lec. and 3 lab. Fee \$2. (2) Paige.

122. Home Mechanics. The care, adjustment, and repair of home equipment and devices. Effective procedures and practices in the operation and management of the modern devices in the home. 1 lec. and 1 lab. (1) McLaughlin.

124. Machine Shop. Chipping, filing, straight turning, taper turning, eccentric turning, chuck turning, face-plate turning, inside turning, thread cutting, polishing, shaper work, grinding, and the care of lathes, shafting, and belting. 4-6 lab. Fee, \$2. (2) McLaughlin.

126. Shop Engineering. A study of the equipment, materials, and the organization of industry to acquaint the student with the methods of industrial manufacturing. The course includes inspection trips and the outline of the manufacture of an article on a production basis. 1 lec. and 3 lab. Fee, \$2. (2) McLaughlin.

141-142. Printing. A study of the composition and nomenclature of type, point system, proof reading, grammatical rules, and printing history. Laboratory work consists of learning the case, composition of straight matter and headings, distribution, pulling proofs, correcting proofs, imposition, and platen press work. Studies of papers and paper making, care of stock, harmony and proportion, linoleum cuts, and setting job composition are included. 1 lec. and 4-5 lab. Fee, \$3. (3) Kinison.

145. Printing (Journalism). The course gives students of journalism an opportunity to handle type, learn the case, and do some printing on the platen press. Exercises are composed of straight matter and headings. 4 lab. Fee, \$2. (2) Kinison, Buchan.

147. Advanced Printing. This course deals with the problems that are encountered in a commercial job printing shop. The subjects of lay-outs, papers, half-tones, etchings, costs, and estimating will be studied. The laboratory work will consist of the filling of printing orders requested by the University. 6 lab. Fee, \$3. Prereq., 142. (3) Kinison.

350. Advanced Wood, Metal, or Printing. Advanced laboratory work in wood, metal, or printing. A study of industrial practice in the field selected by the student. Prereq., 8 hrs. in the selected field. (3) The staff.

TEACHING TECHNIQUES AND ORGANIZATION

1-2. **Elementary Woodworking.** The operation of hand and machine woodworking tools. Drawings and job sheets are used in constructing projects. 1 lec. and 4 lab. Fee, \$3. (3) Paige.

7. **Sheet Metal.** Cutting, forming, seaming, soldering, and riveting of materials used in sheet metal construction. The development of patterns and a knowledge of the sheet metal industry is an essential part of the work. 1 lec. and 3 lab. Fee, \$2. (2) McLaughlin.

127. **Shop Practice.** Assisting in the supervision, handling of supplies and materials, care of projects in shop courses. Prereq., permission. (2-3) McLaughlin.

160m. **Teaching of Industrial Arts.** See Ed. — Teaching Techniques.

212. **School Shop Equipment and Organization.** A study of equipment, school shop arrangement, machine importance, handling of supplies, and types of shop organizations. (3) McLaughlin.

226. **History of Industrial and Vocational Arts.** A study of the history, the current tendencies, and the methods of organization of the industrial and vocational arts to the present. Special study of the Smith-Hughes law and its administration. Prereq., 160m and 3 hrs. school administration. (3) McLaughlin.

355. **Special Problems in General Shop.** A theory course dealing with the organization, equipment, and management of the general shop as related to the small high school. Prereq., 12 hrs. (3) The staff.

357. **Curriculum Building in Industrial Arts.** A study of curriculum building with special reference to the integration of the work of industrial arts with the other fields throughout the school program. Prereq., 16 hrs. (3) The staff.

381. **Research in Industrial Arts.** Prereq., 15 hrs. (3-6) The staff.

395. **Thesis.** (4-8) The staff.

ITALIAN

(See Romance Languages)

JOURNALISM

4-5. **Newspaper Reading.** The course deals with the organization of the newspaper from the reader's point of view. The relationship of the newspaper to social, economic, religious, and educational problems is brought out. Leading newspapers of the country are analyzed. (1) Lasher.

103. **News Writing.** The course deals with the simple news story, stressing the lead. Particular attention is paid to diction and usage and to the fundamentals of sentence structure. Prereq., Eng. 4. (2) Lasher.

105. **The Newspaper.** A study of the character, the purposes, and the general organization of the newspaper, with attention to its origin, development, and present status as a quasi-public institution. Prereq., Eng. 4. (2) Lasher.

108. **Newspaper Reporting.** Instruction in methods of gathering material and writing news narratives, interviews, reports of speeches, follow-up and re-write stories, human interest stories, and specialized news, followed by practical work covering assignments and preparing copy. Prereq., 103. (3) Lasher, Buchan.

110. **Writing for Publication.** Designed for teachers, school administrators, social workers, and others who wish to know the elementary technique of writing news and feature stories in order to publicize their particular interests. Legitimate methods of getting material into publications is discussed. Not open to journalism majors and minors. Prereq., Eng. 4. (2) Lasher.

111-112. **Reporting Practice.** Students are assigned to general reporting on *The Athens Messenger*. In the second semester a student is permitted as far as possible to specialize in the particular field of reporting he desires. Prereq., 108 and permission. (2-4 or 6) Smiley.

113. **Reporting Practice.** Not open to students who have had 6 hrs. in Jour. 111-112. Prereq., 112. (2) Smiley.

116. **Sports Writing and Editing.** The course will deal with the technique of gathering, writing, and editing news and comment concerning all kinds of sports. Attention is paid to the promotion of community sports. Prereq., junior or senior rank. (2) Kelly.

117. **Newspaper Editing.** Principles and practice of newspaper copy-reading, headline writing, illustration, and makeup for dailies, community newspapers, and tabloids, including regular, special, and Sunday editions. Other phases: style, selecting art for and editing picture pages, libel, wire and syndicate news and features, type and mechanical processes. Prereq., 108. (3) Lasher, Buchan.

121-122. **Editing Practice.** Students are assigned to copyreading on *The Athens Messenger*. Prereq., 118 and permission. (2-6) Harris.

130. **Book Reviewing.** (1939-1940) Following a study of present day literary criticism, students write reviews dealing with various types of literature. Prereq., Eng. 4. (2) Lasher.

134. **The Writing of Criticism.** The fundamental principles of criticism are studied and applied to concrete situations in reviewing musical, art, theatrical, and photoplay events. (2) Lasher.

140. **The Community Newspaper.** The course stresses phases of the editorial and business management of the newspaper published in a small community. Problems include: news treatment, editorial comment, the relation of the newspaper to school, church, business, and community life; circula-

tion promotion, the securing and preparation of advertising and job printing, mechanical equipment. Prereq., junior or senior rank. (3) Lasher, Buchan.

145. **Printing (Journalism).** See Industrial Arts.

151-152. **Contemporary Thought and Developments.** Important contributions being made in the fields of art, science, music, education, drama, medicine, literature, government, public health, philosophy, economics, psychology, finance, engineering, law, religion, and sociology are discussed by members of the faculty from the departments and laymen. Material is presented as a background for newspaper writers and readers. Prereq., junior or senior rank. (3) Lasher and others.

155. **High School Publications.** (Summer session only.) Editorial supervision and business management problems of high school newspapers, yearbooks, magazines, and handbooks. (2) Lasher.

164j. **Teaching of High School Journalism.** See Ed. — Teaching Techniques.

172. **The Newspaper as a Business Institution.** The course deals with the organization of the newspaper, emphasizing the various functions and the cooperative responsibilities of business, editorial, and mechanical departments. (2) Buchan.

173. **Newspaper Circulation Practice.** Training in the technique of the Audit Bureau of Circulation system of record keeping. Practical work in circulation, department organization, promotion methods, carrier management, mailing room and transportation supervision at *The Athens Messenger*. Prereq., 172 or 243. (2-3) Buchan.

175. **Newspaper Office and Plant Management Practice.** The course includes a laboratory study of the administration of the accounting and mechanical departments of the newspaper. The publisher of *The Athens Messenger* and the instructor in the business courses in the School of Journalism supervise. Prereq., 173, 177, and Acct. 75-76 or 81. (2) Buchan.

177. **Newspaper Advertising Practice.** Laboratory work at *The Athens Messenger* in the fields of local display, national, and general display. Prereq., 172 or 243, and 247. (2-3) Buchan.

180. **News Broadcasting.** Technique in gathering, writing, and editing local and wire news for radio. Live wire copy from *The Athens Messenger* is used in writing fifteen minute broadcasts. News dramatizations of significant and human interest stories which have already appeared in newspapers. Newspaper promotional activities. Prereq., 111, 121, and senior rank. (2) Buchan.

201. **Advanced Reporting.** Experience at *The Athens Messenger* in some specialized field. Prereq., 112. (2) Smiley.

206. **Newspaper Law.** A case study of the law of libel with special emphasis on constitutional and statutory law pertaining to freedom of the press and defamatory writing. A study and discussion of the constitutional, sta-

tutory, and common law rights of the newspaper and the reporter. Not open to juniors. Prereq., 117. (2) Buchan.

207. **Reporting of Public Affairs.** The course deals with those facts about the courts, legal procedure, civic agencies, government, politics, and business organizations fundamental for the intelligent reporting of public affairs in a community. Students are brought into contact with local officials and organizations. Prereq., 112 or permission. (2) Lasher.

208. **Journalism Ethics.** The case method is applied to such problems as news suppression, publicity, propaganda, and constructive handling of news dealing with crime, religion, politics, capital, labor, and general social conditions. Not open to juniors. Prereq., 103, 105, 111, 121, 172 or 243, and 225. (2) Lasher.

222. **Feature and Magazine Writing.** A study of newspaper, magazine, and syndicate feature stories is followed by practice in writing different types. Some of the problems considered are: how to discover desirable material, how to secure suitable illustrations, how to bring out the dominant interest, how to prepare and sell manuscripts. Prereq., 111 or 12 hrs. English. (3) Lasher.

223. **Advanced Feature and Magazine Writing.** Students are permitted to select their type of material. Writing is done with the definite idea of publication, and a study is made of the most suitable markets for publication. A conference course. Prereq., 222. (2) Lasher.

225. **The Editorial Page.** A study of the editorial page as to purpose, material, style, tone, and effect. Training is given in the analysis of news and in writing news interpretation, news comment, controversial and generalized editorials, and the editorial paragraph. Prereq., 111 or 12 hrs. English. (3) Lasher.

243. **Newspaper Management.** The course deals with problems of business organization, circulation, the handling of local, national, and classified advertising, office and composing room management, newspaper accounting, business promotion, financing the newspaper, and editorial policies. Prereq., 105 and Acct. 75-76 or 81. (3) Buchan.

247. **Newspaper Advertising.** Departmental organization, solicitation technique, promotion, layout, copy writing, and typography pertaining to the retail, classified, and legal advertising departments of the newspaper. Agency contact, merchandising, and promotion of the newspaper general advertising department. Prereq., Adv. 155. (3) Buchan.

LATIN

(See Classical Languages)

MARKETING

(See Commerce)

MATHEMATICS AND ASTRONOMY

The major requirement in mathematics for the A.B. or B.S. degree includes Math. 5, 6, 117, 118, and two other courses at least one of which shall bear a course number in the 200 group.

1. **Elementary Algebra.** A beginning course for students with no high school algebra. (4)

3. **Plane Geometry.** A course for students with no high school geometry. Prereq., 1 or 1 yr. high school algebra. (4) Denbow.

4. **Solid Geometry.** (1939-1940) Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Denbow.

5. **Freshman Mathematics.** The number system, the rational operations, equations, exponents, radicals, logarithms, the trigonometric functions, right triangles, binomial theorem, quadratic equations, linear equations, determinants, graphs, theory of equations, functions of multiple angles, and the solution of triangles. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (5) The staff.

6. **Freshman Mathematics.** Complex numbers, coordinate systems, progressions, the straight line, the circle, conic sections, polar forms, the transformation of coordinates, and a brief treatment of solid analytic geometry. Prereq., 5. (5) The staff.

11. **Geometry.** A review of elementary geometry, advanced problems in plane Euclidean geometry, the postulates of geometry, and a brief consideration of two types of non-Euclidean geometry. Prereq., 3 or plane geometry in high school. (3) Marquis.

34. **Mathematics of Finance.** A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Marquis.

105. **College Geometry.** Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6. (3) Marquis.

112. **Descriptive Astronomy.** The earth as an astronomical body, the motions and physical characteristics of the sun and other bodies of the solar system, and the distances, constitution, and distribution of stars and nebulae. The simple principles of physics and mathematics needed to understand the subject are developed. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Reed.

117. **Differential Calculus.** Variables, functions, limits, differentiation and its applications to maxima and minima, differentials, curvature, and the theorem of mean value. Prereq., 6. (4) Reed, Marquis, Starcher.

118. **Integral Calculus.** Integration, the definite integral, geometrical and physical applications of integration, series, expansion of functions, partial

differentiation, multiple integrals, and a brief treatment of simpler types of differential equations. Prereq., 117. (4) Reed, Marquis, Starcher.

125. **Elementary Statistics.** The common theory and methods used generally by investigators in widely different fields. The topics considered are: graphs, methods of computing the statistical constants, transformation of unit, moments, the normal law, curve fitting, time series, trend and ratio charts, correlation, regression, and probability. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Starcher.

168j. **Teaching of Mathematics in the Junior High School.** See Ed. — Teaching Techniques.

168m. **Teaching of Mathematics in the Senior High School.** See Ed. — Teaching Techniques.

201. **Theory of Equations.** The roots of unity, theorems on the roots of an equation, construction of roots with ruler and compasses, isolation of real roots, numerical solutions, determinants, systems of linear equations, and symmetric functions. Prereq., 6. (3) Reed.

204. **Advanced Calculus.** Particular subjects in the differential and integral calculus: expansion into series, Taylor's series, definite integrals and their applications to double and triple integrals, line integrals, and some vector analysis. Prereq., 118. (3) Reed.

208. **Projective Geometry.** (1939-1940). A study of the elements, primitive forms, duality, projectively related forms, curves and ruled surfaces of the second order, Pascal's and Brianchon's theorems, poles and polars, and the theory of involution. Prereq., 6. (3) Marquis.

215. **Differential Equations.** The formation of a differential equation, types of equations solvable by a transformation, linear equations, integration in series, simultaneous linear equations, and differential equations arising in mechanics and physics. Prereq., 118. (3) Reed.

217. **Vector Analysis.** The elements of vector algebra, the elements of vector calculus, scalar and vector fields, linear vector functions and dyadics, and general coordinates and associated transformation theory. Prereq., 118. (3) Reed.

219. **Analytic Mechanics.** (1939-1940) Moments of mass and inertia, kinematics of a point, curvilinear motion, kinetics of a particle, work, energy, impulse, motion of a particle in a constant field, central forces, and potential energy. Prereq., 118. (3) Marquis.

221. **Theory of Numbers.** Division, congruences, Wilson's theorem, Fermat's theorem, Euler's theorem, quadratic reciprocity, and Diophantine equations. Prereq., 118. (3) Marquis.

226. **Theory of Statistics.** (1939-1940) The normal surface, probability, frequency curves and their uses, sampling theory, multiple correlation, finite differences, and interpolation. Prereq., 118 and 125. (3) Starcher.

301-302. **Modern Higher Algebra.** Prereq., 118 and 201. (3) The staff.

311-312. Theory of Functions of a Complex Variable. (1939-1940) Prereq., 118, 201, and 215. (3) Starcher.

319-320. Theory of Functions of a Real Variable. Prereq., 118, 201, and 215. (3) Marquis.

395. Thesis. (4-8) The staff.

MILITARY SCIENCE AND TACTICS

1-2. Basic Infantry. The National Defense Act, leadership, rifle marksmanship, obligations of citizenship, military courtesy and discipline, organization, sanitation and first aid, military history and policy, map reading. 3 hrs. a week. (1) Olmstead, Wallace.

3-4. Military Band. Open to students enrolled in military science and tactics. The Military Band is combined sometimes with the University Band. Students enroll concurrently with courses in military science. Freshmen do not receive credit during their first semester of participation. Students enrolled in the Military Band, who have completed Mil. Sc. 1, may substitute training in the band for a part of the hours allotted to close order and other formal drills. (1) Janssen, Olmstead.

101-102. Basic Infantry. Military fundamentals, leadership, weapons, musketry, scouting and patrolling, tactical principles. 3 hrs. a week. Prereq., 2 or 4. (1) Pearson, Fair.

121-122. Infantry, Advanced. Aerial photograph reading, leadership, weapons, combat principles, elements of field service, military administration, training management, care and operation of motor vehicles. Prereq., 102. 5 hrs. a week. (3) McNeill, Fair.

151-152. Infantry, Advanced. Leadership, military law, military history, administration and supply, combat training, mechanization, signal communications. 5 hrs. a week. Prereq., 122. (3) McNeill.

MUSIC

APPLIED MUSIC

Organ. Private instruction in organ requires a background of pianistic ability equivalent to four semesters of credit. (1-3) Kresge.

Percussion Instruments. (1-2) Janssen.

Piano. (1-3) Fontaine, Kresge, Longstreet, Board, Witham.

Stringed Instruments. Private instruction in violin, viola, violoncello, and double bass. (1-3) Ingerham, Ellis.

Voice. (1-3) Robinson, Benedict, Roach, Peterson, Ellis.

Wind Instruments. (1-2) Janssen, Frische.

HISTORY AND THEORY

5-6. Music Appreciation. The aim is to encourage intelligent listening and consequent enjoyment of music. The victrola, piano, and organ are used for illustrative purposes. (1) Benedict.

7. Introduction to the Fine Arts. Lectures and demonstrations planned to acquaint students with the fine arts field. (2) Pickens, assisted by members of the College of Fine Arts.

11, 12. Music History. A general development of music from the primitive and ancient peoples through the polyphonic period; the classic music of the eighteenth century. Mus. 12 includes a study of the music of the nineteenth and twentieth centuries; romanticism, impressionism, and tendencies of the present day. A survey of agencies for musical advancement in America. (2) Peterson.

105-106. Harmony. Formation of major and minor scales; intervals, triads, and their relations in open and close position; harmonizing of melodies; inversions, cadences, sequences, passing and auxiliary notes; original work. Mus. 106 includes the seventh chord on the dominant and leading note, and their inversions; chord of the ninth on the dominant, and inversions. 3 lec. (2) Kresge.

107-108. Keyboard Harmony. Playing of triads, dominant sevenths and arpeggios. Harmonization of melodies in four voice harmony and in full piano style. Improvisation of melodies with accompaniment in phrase and period form, transposition. Prereq., the ability to play a hymn correctly. (1) Witham.

109-110. Ensemble. Participation in the playing or singing of ensemble arrangements of classic and modern compositions. (1) The staff.

111-112. Harmony. Secondary seventh chords; altered and mixed chords; modulation, suspensions, retardations, anticipations, syncopations, organ-point, embellishments; harmonizing of melodies, or original work and analysis. Prereq., 106. (2) Kresge.

113-114. Analysis and Form. Detailed analysis of the structure of musical compositions. Material used: the hymnal; *Songs Without Words*, Mendelssohn; sonatas of Beethoven; fugues of Bach. Prereq., 106. (2) Robinson.

115-116. Counterpoint. Single counterpoint in all species, in two, three, or four parts. Mus. 116 develops motive, double counterpoint, free writing on original themes. Prereq., 114. (3) Fontaine.

120. Instrumentology. Comparative musicology. A study of musical instruments. An explanation of the physical phenomena of sound generation and resonance precedes a systematic study of the development of the keyboard and wind and stringed instruments. (1) Janssen.

129. Melody Writing. A study of the principles involved in melodic construction. Open to anyone who can meet the prerequisite requirements

and who has a normal harmonic sensitivity. 2 lab. Prereq., pianoforte 2 hrs. or the equivalent, and permission. (1) Robinson.

130. Ensemble Conducting. An opportunity for study and practical experience in either choral or instrumental conducting. Stress on the use of the baton, attack, release, control, phrasing, and other phases of foundational requirements. Interpretative studies in chorals, anthems, partsongs and the oratorio, opera, and symphony. Prereq., 2 yrs. of university piano and theory courses and permission. (1-6) Robinson, Ingerham, Janssen.

133-134. Instrumentation. The classification and scope of orchestral instruments, reading of scores, arranging and scoring for orchestra. Mus. 134 emphasizes the scoring of hymns and folk tunes for strings, woodwind, brass; the scoring for simple combinations and for full orchestra and band. Minute analysis of symphonic scores. Prereq., 114. (3) Janssen.

137-138. The Literature of Music. A survey of representative literature from the fields of opera, oratorio, art songs, chamber and orchestral music. Illustrated by the Capehart phonograph and individual performance. Prereq., 5 or the equivalent. (1) The staff.

211-212. Music History. A survey of the growth and development of all forms of vocal music from the monadic period up to the twentieth century era, with emphasis upon conditions influencing expression. The greater composers are studied in reference to their contributions and characteristic styles. Mus. 212 traces the development of instrumental music. Prereq., 6, 12, and 120. (2) Peterson.

215-216. Harmony. Chromatic harmony, modulation, altered chords, analysis. Original work. Comparison and examination of harmony text books. Prereq., 112, 114, and 2 yrs. aural theory. (2) Kresge.

217-218. Counterpoint. The multiple forms of counterpoint. Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Students write short, original compositions in the contrapuntal style for organ or piano, trios for piano and strings or woodwinds, as well as simpler forms for string quartet. Prereq., 116. (2) Fontaine.

219-220. Composition. Correlation of the harmonic and contrapuntal principles. Comparison of the rhetorical principles of music and poetry. Original writings in the more simple forms. Prereq., 116 and an average of B in aural theory. (2) Robinson.

305-306. Harmony. A study of the new methods of chord structure in modern harmony, polytonality, atonality, analysis, and original writing. Prereq., 216. (2) Kresge.

309-310. Canon and Fugue. A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully developed original fugue in four voices is necessary for credit. Prereq., 218 and permission. (2) Fontaine.

311. Musicology. (1939-1940) The music of the eighteenth century.

A detailed study of the backgrounds in literature, general history, social customs, and the fine arts of the classic period, special attention to Haydn and Mozart. Prereq., 120, 212, and Hist. 1, 2. (2) Benedict.

312. **Musicology.** (1939-1940) Beethoven. An intensive study of the major works of the great master and a biographical survey of his life. Prereq., 120 and Hist. 1, 2. (2) Benedict.

313. **Musicology.** Richard Wagner and the music drama. The social, economic, and political conditions of nineteenth century Germany as reflected in the life of Wagner. The fruition of romantic tendencies in the Wagnerian drama are considered in comparison with nineteenth century opera. *Tannhauser*, part of the *Ring* and *Die Meistersinger* are studied. This course alternates with 311. Prereq., 6, 120, 212, and Hist. 1, 2. (2) Benedict.

314. **Musicology.** Twentieth century trends. A study of the impressionism of Debussy and its influence. The motivation of the modernists, Scriabin, Stravinsky, and Schoenberg. This course alternates with 312. Prereq., 120, 212, and Hist. 1, 2. (2) Benedict.

325-326. **Music Composition.** Extensive writing in the vocal and instrumental forms. The use of modern harmonic principles. Prereq., 220. (2) Robinson.

327-328. **Advanced Orchestration.** Problems in scoring original works and arranging for the modern symphony orchestra. Satisfactory scores are performed by the University Orchestra. Students are required to attend an assigned number of orchestra rehearsals. The class work includes criticism of each student's work. Prereq., 116 and 134. (2) Janssen.

395. **Thesis.** (4-8) The staff.

MUSIC ACTIVITIES

Chorus. (Summer session only.) Program material includes chorales, madrigals, and other choral forms. (1) Robinson.

University Band. Open to men students. Two hours a week are required in practice under the band leader. Admission by music permit. The University Band sometimes unites with the Military Band. (1) Janssen.

University Glee Club, Men. Admission by music permit. Limited to 36 members. (1) Peterson.

University Glee Club, Women. Admission by music permit. Limited to 36 members. (1) Benedict.

University Orchestra. Open to men and women students. Admission by music permit. (1) Ingerham.

SCHOOL MUSIC

1. **Music Background.** Required of all students planning to enter Mus.

2 or Mus. 3 who are not adequately prepared. It gives experience in the tonal and rhythmic elements of music with a basis for music understanding. 3 lab. (0) The staff.

2. Music Fundamentals. A course involving theory, ear training, tone production, and sight singing of unison and part songs. Fee, \$2. (2) Blayney, Morley.

3-4. Ear Training and Sight Singing. Systematically graded exercises to quicken the musical hearing. Oral and written reproduction of melodies in all keys. Unison and part singing at sight. (2) Maaser.

103-104. Ear Training and Sight Singing. Advanced melodic and harmonic dictation involving intricate rhythms and altered chords. More difficult sight reading of vocal and instrumental forms, stressing the underlying harmony. Study of form. Prereq., 4. (2) Maaser.

121. Campus Orchestra. A laboratory for instrumental majors. It provides practice for those who aim for increased facility in ensemble work. Open to any student who has sufficient skill in playing an orchestral instrument. (1) Thackrey.

127. Music Appreciation. To familiarize students with the best material available for use in the elementary grades and high schools and methods of procedure in developing appreciation. (3) Danielson.

131. Music Materials and Systems. A survey of materials and music systems in general use. An emphasis on choral literature. Prereq., 16 hrs. teaching techniques. (2) Danielson.

166b. Teaching of Instrumental Music. See Ed.—Teaching Techniques.

166d. Teaching of Dances and Games. See Ed.—Teaching Techniques.

166e. Teaching of Music in Intermediate Grades. See Ed.—Teaching Techniques.

166f. Teaching of Music in First Six Grades. See Ed. — Teaching Techniques.

166j. Teaching of Music in Junior and Senior High School. See Ed. — Teaching Techniques.

166k. Teaching of Music in Kindergarten-Primary Grades. See Ed. — Teaching Techniques.

166p. Teaching of Class Piano. See Ed.—Teaching Techniques.

166s. Teaching of Class Stringed Instruments. See Ed. — Teaching Techniques.

166w. Teaching of Class Wind Instruments. See Ed.—Teaching Techniques.

173. Conducting. Conducting technique developed. A study of qualities and habits essential to a good conductor. Individual practice in conducting

choral material appropriate for use in the junior and the senior high schools. (1) Danielson.

174. Conducting. Technique and score reading, orchestral conducting, and band conducting. Material suitable for use in the junior and senior high schools considered. Standard symphonies and overtures are conducted in laboratory with the Campus Orchestra. Prereq., 173. (1) Thackrey.

University Vested Choir. An organization of mixed voices composed of the best vocal talent on the campus. The repertoire is confined to the highest type of vocal literature both a cappella and accompanied. Limited to 40 members. Admission by music permit. (1) Robinson.

PAINTING AND ALLIED ARTS

DESIGN

3. Fundamentals of Design. Elementary principles using problems in color, lettering, and composition. Planned for students who expect to major in elementary education. 1 lec. and 3 lab. (2) Willis, Work, Bedford, Abel, Leonard.

11. Theory of Design. The relationships of lines, areas, and colors in design and composition. 2 lec. and 4 lab. (3) Work.

12. Theory of Design. Color theory. The qualities of color applied to designs. 2 lec. and 4 lab. Prereq., 11. (3) Bedford.

31. Design and Composition. Problems in design and composition with special emphasis on color. Planned for students who expect to major in home economics. 1 lec. and 3 lab. (2) Willis.

60c. Teaching of Design for Early Childhood. See Ed. — Teaching Techniques.

60g. Teaching of Design for Intermediate and Higher Grades. See Ed. — Teaching Techniques.

102. Applied Design. Principles applied to posters, decorative boxes, wall hangings, painted tapestries, and table decorations. 2 lec. and 4 lab. Prereq., 31. (3) Willis.

103. Practical Design. Special emphasis on application of principles to marionettes, toys, weaving, cardboard construction, clay modeling. 1 lec. and 3 lab. Fee, \$2. Prereq., 3, 12, or 31. (2) Bedford.

104. Elementary Architectural Drawing and Design. Progressive drafting room exercises. Emphasis on composition and materials. Relationship of plan, section, and elevation in simple elements. 6 lab. Prereq., 21, 45, 46, C. E. 1 and 74. (2) Pickens.

113. Lettering. Study of form, spacing, alphabet styles, and letter arrangement. 2 lec. and 4 lab. Prereq., 11. (3) Bedford.

114. Textile Design. All-over patterns with emphasis on principles. 2 lec. and 4 lab. Prereq., 12 or 102. (3) Way.

115. Pottery. Clay processes toward functional shape. Study of decoration and history of pottery. 1 lec. and 3 lab. Fee, \$2. Prereq., 3, 12, or 31. (2) Bedford.

124. Jewelry. Original designs executed in pewter, copper, and silver. Three processes are studied: etching, piercing, and soldering. 1 lec. and 3 lab. Fee, \$2. Prereq., 3, 11, or 31. (2) Willis.

125. The Arts in Everyday Life. Planned to help the student appreciate and select the best articles available for the home, costume, etc., according to their functional qualities. (2) Way, Bedford.

127. Workshop. Students assigned to projects in the College of Fine Arts for practical experience. 3-9 lab. Prereq., 6 hrs. and permission. (1-3) Mitchell.

131. Modeling and Sculpture. Original interpretations of forms in clay, wood, and other suitable materials. 1 lec. and 6 lab. Prereq., 45, 71, or 117 and 11, 115. (3) Bedford.

137-138. Costume Design. Design in relation to dress. Designing for individual characters. Adaptation of historic styles to modern costume. Costumes for the stage and for pageants. 1 lec. and 3 lab. Prereq., 3, 12, or 71. (2) Way.

140. Design Applied to Materials. Emphasis on the direct relation of design applied to both rigid and plastic materials. Problems in weaving, wood, metal, and cloth. 3 lec. and 3 lab. Fee, \$4. Prereq., 12 or 31. (4) Bedford.

147. Principles of the Space Arts in Advertising. Study of layout in advertising, including letterheads, direct mail folders, trade marks, and magazine and newspaper layouts. 1 lec. and 3 lab. (2) Work.

152. Bookbinding. Practical problems in cardboard construction and bookbinding. 1 lec. and 3 lab. Fee, \$2. Prereq., 3, 12, or 31. (2) Bedford.

154. Weaving and Textile Design. Experience in weaving as a medium of design expression. 3 lec. and 3 lab. Fee, \$4. Prereq., 114. (4) Bedford.

155-156. Intermediate Architectural Design. Progressive drafting room problems in design of simple architectural buildings: office practice, requirements of client, site, materials, sketches, perspective and working drawings and models. 9 lab. Prereq., 22, 104 or 172, 175, and C. E. 105. (3) Pickens.

160h. Teaching of the Space Arts. See Ed. — Teaching Techniques.

171-172. House Decoration. Brief study of architectural details and historic styles of furniture as used in modern homes. Study of house plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., 104 and 114. (3) Way.

207. Advanced Design. Composition for decorative panels in different

media with special emphasis on design. 2 lec. and 4 lab. Prereq., 114 and 117, or 211. (3) Willis.

209. **Prints.** Composition in linoleum blocks, Provincetown wood blocks, and in etching, aquatint, and dry-point. 2 lec. and 4 lab. Prereq., 12 hrs., including 45 or 71, and 117. (3) Work.

213-214. **Advanced House Decoration.** Floor plans and elevations rendered in correct architectural manner. From these, perspective drawings are constructed and rendered in color. Research is stressed and original adaptations are made from styles of all periods. 2 lec. and 4 lab. Prereq., 172. (3) Way.

216. **Advanced Pottery.** Pottery design, glazing and firing, with emphasis on technique and original plans. 1 lec. and 3 lab. Fee, \$2. Prereq., 12 hrs., including 115. (2) Bedford.

217-218. **Poster Advertising and Industrial Styling.** Magazine and newspaper layouts. Designs for book jackets, packages, bottles, textiles, and posters. 2 lec. and 4 lab. Prereq., 12 hrs., including 12 and 147. (3) Work and the staff.

221. **Advanced Costume Design.** Application of principles to dress design. Study of the details of costume. 1 lec. and 3 lab. Prereq., 117, 138, and 219. (2) Way.

225. **Advanced Jewelry and Metal Work.** A continuation of P. A. Arts 124. 1 lec. and 3 lab. Fee, \$2. Prereq., 12 hrs., including 124. (2) Willis.

255-256. **Advanced Architectural Design.** 18 lab. Prereq., 156, 204, C. E. 139 and E. E. 125. (6) Pickens.

281. **Research in Design.** 3-15 lab. Prereq., 15 hrs. (1-5) Work.

391. **Seminar in Design.** Prereq., 18 hrs., and permission. (1-5) Work.

395. **Thesis.** (4-8) The staff.

HISTORY

7. **Introduction to the Fine Arts.** Lectures and demonstrations planned to acquaint students with the fine arts field. (2) Pickens assisted by members of the College of Fine Arts.

21-22. **History of the Space Arts.** The principal periods of history from the earliest times to the present are made familiar to the student through a study of the most significant surviving forms. (3) Pickens.

157. **Appreciation of the Space Arts.** Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting. (1) Way.

175. **American Architecture.** The history of architecture in America

with supplementary consideration of European building related to modern movement. (2) Pickens.

176. Modern Painting. A discussion of the factors which developed the modernists in painting is followed by an investigation of the impressionists, the post-impressionists, and the numerous schools which have followed them, both in Europe and America. (2) Pickens.

203. History of Italian Renaissance Painting. The development of the history of painting in Italy during the Renaissance from the early Florentine and Sieneese schools through the fifteenth and sixteenth centuries in central and northern Italy. The inter-relationship between this art and the art of other countries during the Renaissance. Prereq., 9 hrs., including 22. (3) Pickens.

204. History of Italian Renaissance Architecture and Sculpture. The course parallels P. A. Arts 203. Prereq., 9 hrs., including 22. (3) Pickens.

390. Seminar in History of the Space Arts. Prereq., 18 hrs., including 7 and 22. (2-5) Pickens.

395. Thesis. (4-8) The staff.

REPRESENTATION

45. Methods in Representation. A study of proportion, structure, depth, and action. 1 lec. and 3 lab. (2) Mitchell.

46. Methods in Representation. Color variations in nature related to paint. 1 lec. and 3 lab. (2) Mitchell.

71. Sketching. Quick sketches from life including action and still poses of figures and animals, out-of-door sketching, and contour drawing of objects used in commercial advertising. 1 lec. and 3 lab. Fee, \$2. (2) Way.

77. Principles of Photography. Lectures on history and theory of photography and demonstrations of methods. General laboratory technique. 1 lec. and 6 lab. Fee, \$1 for each credit hour. (1 or 3) Paul.

78. Principles of Photography. A continuation of P. A. Arts 77 featuring application. 2 lec. and 3 lab. Fee, \$3. Prereq., 77. (3) Paul.

117. Drawing. Modern composition and drawing from the post-impressionist point of view, using different mediums. 1 lec. and 5 lab. (3) Willis.

118. Water Color. A study of current tendencies in painting. 1 lec. and 3 lab. Prereq., 12, 102 or 45 and 46, and 71. (2) Work.

121. Representation. Practice in methodical representation from still life and cast models in several mediums. 1 lec. and 5 lab. Prereq., 45. (3) Mitchell.

128. Materials. Source and nature of materials used by the painter. Prereq., 45 and 46. (2) Mitchell.

130. The Depth Problem. Methodical practice with color variations in depth. 1 lec. and 5 lab. Prereq., 45 and 46. (3) Mitchell.

133. News Photography. Special course featuring photography for news publications. 1 lec. and 6 lab. Fee, \$3. Prereq., 77. (3) Paul.

141. Structure of Form. Nature's forms studied both visually and anatomically under laboratory conditions. Prereq., 121. (2) Mitchell.

143, 144. Practical Photography. Practice under laboratory conditions. Departmental requirements and those of campus organizations used as subject matter. 9 lab. Fee, \$3. Prereq., 78 or permission and with 45 or 46. (3) Paul.

205-206. Painting. Practical application of theories and methods of representation in color mediums. 9 lab. Prereq., 130 and 141. (3) Mitchell.

211. Principles of Modern Painting. Foundations in the principles used by the post-impressionists. Practical problems developed in different media. 2 lec. and 6 lab. Prereq., 12, 117, and 207. (4) Willis.

219-220. Advanced Water Color. A study of current tendencies in painting. 1 lec. and 3 lab. Prereq., 12 hrs., including 118. (2) Mitchell.

257-258. Landscape Painting. 9 lab. Prereq., 20 hrs., including 206. (3) Mitchell.

271. Advanced Practical Photography. 2 lec. and 9 lab. Fee, \$5. Prereq., 144. (5) Paul.

331. Pictorial Composition. 9 lab. Prereq., 206 and permission. (3) Mitchell.

336. Decorative Composition. 9 lab. Prereq., 331. (3) Mitchell.

393. Seminar in Painting. Prereq., 331. (3-9) Mitchell.

395. Thesis. (4-8) The staff.

PHILOSOPHY

1. Problems of Religion. Deals with some of the major religious and moral problems which perplex present-day youth. Selected problems are treated in lectures, readings, and class discussion. (1-3 as scheduled) Houf.

2. Introduction to the Bible. Considers the kinds of books, their nature and purpose, the background of the life and writings, a sketch of the main ideas, and some methods of Bible study. (1) Houf.

3. Introduction to New Testament Thought. The social and religious background and the development of the New Testament writings. Study of the teachings of Jesus and Paul and the other important types of New Testament thought. (3) Houf.

4. Introduction to Old Testament Thought. A study of the content and

development of Hebrew thought, including early tradition, the ideals of the prophets, legal formalism, Jewish philosophizing, religious poetry, and the Messianic hope. (3) Houf.

5. Principles of Reasoning. An elementary course in the general conditions and principles of right thinking; the spirit, aims, and methods of investigation in the physical and social sciences. (2) Martin.

7. Elementary Ethics. The biological and social influences which affect behavior. Introduction to an ethical philosophy of life. Ample time is devoted to a consideration of contemporary personal and social problems. (2) Houf.

101. General Ethics. The origin and development of moral ideas, the historical ethical theories, and a constructive moral philosophy. Class discussion of the chief personal and social problems of current life. (3) Houf, Martin.

103. Introduction to Philosophy. An elementary treatment of the chief problems of philosophy. The course is meant to introduce the student to the most interesting features of serious human thought and to put him in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. (3) Houf.

105. Brief Introduction to Philosophy. An abbreviation of Phil. 103 for students who desire an acquaintance with philosophy. Not open to students who have had Phil. 103. (2) Martin.

107. The World's Great Religions. A historical and comparative treatment of the origin, literature, beliefs, practices, and values of the living religions of the world. (2-3 as scheduled) Houf.

109. Logic. A study of the principles and methods of sound reflective thinking as applied in the special sciences, in oral or written exposition, and in argumentation generally. Prereq., junior or senior rank. (2-3 as scheduled) Gamertsfelder.

111. Business and Professional Ethics. The place of business and professional organizations in society; study of the ethical practices and standards in the business world and in such professions as engineering, law, medicine, and teaching. Prereq., junior or senior rank. (2) Houf.

113. American Philosophy. The thought movements in American history, with a view to explaining the philosophical background of our literature, social institutions, and national character. Prereq., 3 hrs. (2-3 as scheduled) Martin.

116. Great Thinkers of the Orient. Study of some leaders of thought in ancient and modern India, China, and Japan, acquainting the student with the chief ideas in the culture and civilization of the East. (2-3 as scheduled) Houf.

201. History of Ancient and Medieval Philosophy. A historical introduction to the problems of philosophy emphasizing the relation of philosophical thought to the growth of the natural sciences and the changes in social

theory. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English. (3) Martin.

202. History of Modern Philosophy. The development of philosophy from Francis Bacon to Herbert Spencer, with a brief survey of the contemporary movements in philosophy. Prereq., same as Phil. 201. (3) Martin.

204. Social Philosophy. An inquiry into the nature and purposes of social institutions, with special reference to economic activities, the state, religion, and education. Emphasis is placed upon the problems of democracy. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science. (2) Houf.

206. Contemporary Philosophy. The reading and discussion of selections from representative philosophers of the present and recent past. Acquaintance is made with the leading schools and movements in present-day philosophy. Prereq., 6 hrs. (2) Martin.

208. Philosophy of Science. This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture. Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science. (2) Martin.

209. Philosophy of Religion. The meaning of religion; the relation of religion to other aspects of culture; Christianity and other religions; the existence and nature of God, prayer, the soul and immortality; skepticism and faith. Prereq., 6 hrs. (3) Houf, Martin.

210. Minor Studies in Philosophy. A critical study of selected types of philosophy, or an investigation of minor problems in the history of philosophy. Prereq., 6 hrs. (1-6) Houf, Martin.

391. Seminar in Philosophy. Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Prereq., 15 hrs. (2-6) The staff.

395. Thesis. (4-8) The staff.

PHYSICAL WELFARE

MEN

1-2. Sports. The activities offered give the student a selection from the following sports: touch football, tennis, archery, basketball, tumbling, apparatus, fencing, volleyball, boxing and wrestling, handball, paddle tennis, softball, golf, fly and bait casting, and badminton. 3 hrs. a week. Fee, \$1. (1) Nessley and staff.

9-10. Adapted Activities. Students whose exercise should be restricted are assigned to activities adapted to their special needs. 3 hrs. a week. Fee, \$1. Prereq., permission. (1) Trepp.

22. Personal and Public Health. The course provides students with a fundamental knowledge of the source of material and an appreciation of the

means whereby the health of the individual and of the group may be improved. (3) Trepp.

101-102. Sports. Each semester students may elect from the following group two activities in which they are interested: tumbling and apparatus, handball, touch football, ping pong, cross country, boxing and wrestling, fencing, paddle tennis, volleyball, softball, horseshoe pitching, track and field, archery, fly and bait casting, golf, and tennis. 3 hrs. a week. Fee, \$1. Prereq., 2 or 10. (1) Nessley and staff.

109-110. Adapted Activities. For students whose activities must be limited. 3 hrs. a week. Fee, \$1. Prereq., permission. (1) Trepp.

121-122. Physical Activities. Theory and practice in the following: touch football, soccer, speedball, basketball, handball, swimming, elementary tumbling, apparatus, and fencing. Methods and materials for teaching games, and fundamental training. The last twelve weeks of the course include methods and practice in rhythmic activities. 5 hrs. a week. Fee, \$1. Prereq., 102 or 110. (2) Herbert, Trepp, and staff.

123. Physical Activities. The various techniques and procedures appropriate for the following activities: archery, golf, tennis, volleyball, and badminton. Consideration is given to individual and group methods. 3 hrs. a week. Fee, \$1. Prereq., 122. (1) Herbert and staff.

124. Physical Activities. Study of formal physical activities. Various systems are reviewed. The development of personal proficiency in the teaching of formal work. The last six weeks of the course include methods and practice in boxing and wrestling. 3 hrs. a week. Fee, \$1. Prereq., 123. (1) Herbert and staff.

125. Scouting. The scout movement including organization and supervision of troops, test passing, hikes, company and general characteristics of boys. (1) Trepp.

127. First Aid. The treatment of emergencies and accidents in the home, on the street, in vocational pursuits, and on the athletic field. Emphasis on the teaching of safety in the schools. The American Red Cross First Aid Certificate is given to those who pass the required examination. Prereq., 22. (2) Herbert.

128. Advanced Theory of Athletic Training. This course covers the following subjects: safety in athletics, conditioning, treatment of major athletic injuries, physiotherapy. Prereq., 127 and Zool. 115. (2) Herbert.

133. Theory and Practice of Adapted Activities. The course includes the principles and practices in the development of good postural habits, activities for the permanently disabled, treatment of postural defects, exercises for the weak and underdeveloped. Prereq., 1 yr. zoology. (2) Trepp.

167d. Coaching of Baseball. See Ed. — Teaching Techniques.

167e. Coaching of Basketball. See Ed. — Teaching Techniques.

167f. Coaching of Football. See Ed. — Teaching Techniques.

167t. Coaching of Track. See Ed. — Teaching Techniques.

171. Physical Activities. Advanced practice in tumbling and apparatus. Some attention to pyramids, the physical education circus, and demonstration. An opportunity is given to the student to secure the American Red Cross Life Saving Certificate. 3 hrs. a week. Fee, \$1. Prereq., 122. (1)

MEN AND WOMEN

30. Introduction to Physical Welfare. Consideration is given the following: history, purpose, growth and development of health service, health instruction, recreation and athletics, health and physical welfare as a profession, curricula, personal qualifications, specialization and social relationships. (1) Bird, Hatcher.

152. Kinesiology. A study of muscular movements and muscular exercises in their relation to the problems of bodily development and efficiency. Prereq., Zool. 115. (2) Trepp.

153. Nature and Function of Play. Play programs for schools, recreation centers, playgrounds, and scouting. Prereq., 6 hrs. (2) Bird.

167h. Teaching of Health. See Ed. — Teaching Techniques.

167p. Teaching of Physical Welfare. See Ed. — Teaching Techniques.

204. Principles of Physical Welfare. Physical education in our modern program of education, its relationship to recreation and health education, and its contribution to living. Curriculum construction in the elementary and secondary schools. Prereq., 16 hrs. (2) Rhoads.

205. History of Physical Education. A study of the development of various systems of physical education and the effects of them on our present day program. Prereq., 16 hrs. (2) Hatcher.

206. Organization and Administration of Physical Welfare. Physical and health education in elementary and secondary schools, normal schools, and colleges. Athletic management, intramural activities, interscholastic and intercollegiate athletics. Prereq., 16 hrs. (2) Bird.

209. Physical Activities Tests. A theoretical and practical study of available tests and measurements. Tests and measurements are analyzed to determine their place, use, and possibilities in the physical welfare program. Prereq., 10 hrs. (2) Nessley and staff.

249. Community Recreation. A course for leaders and those interested in guiding leisure time programs. Topics include: brief history of the play movement, programs and program making, general administration of playgrounds and community centers and activities. Prereq., 8 hrs. and 153. (2) Nessley and staff

250. Community Recreation. A course including recreational crafts such as wood carving, clay modeling, leather craft, metal craft, rug weaving, etc. The various departments specializing in these crafts furnish the instruction. Prereq., 8 hrs. and 153. (2) McLaughlin, Bird, Phillips, Mitchell, Jukes, Thackrey.

252. School Health Program. This course is concerned with the healthful school environment, teacher-pupil relationship, follow-up service, safety and accident prevention, and additional content necessary to construct an adequate school health program. Prereq., 13 hrs. and 22. (2) Trepp.

351. Health Problems. A survey of the contents and relationship of the current problems in health education. An opportunity for the investigation of specific problems and for the study of techniques. Prereq., 15 hrs. (3) Trepp, Burger.

352. Physical Diagnosis. A study of the fundamental deficiencies and defects characteristic of children that handicap normal physical, mental, and social development. A study of the techniques in conducting health examinations, clinical service, etc. Prereq., 15 hrs. (3) Burger.

391. Seminar in Physical Welfare. For students who desire to pursue special research or investigation in physical welfare. Reviews of current literature and discussions of physical activities. Prereq., 15 hrs. (3) Bird and staff

395. Thesis. (4-8) The staff.

WOMEN

1, 2. Sports. Activities are offered according to the season. Students may choose from hockey, soccer, basketball, badminton, tennis, archery, volleyball, baseball, track and field. 3 hrs. a week. Fee, \$1. (1) The staff.

3-4. Swimming. Instruction in strokes and diving according to student's ability. 3 hrs. a week. Fee, \$1. (1) Spencer.

5. Folk and National Dancing. 3 hrs. a week. Fee, \$1. (1) Hatcher, LaTourrette.

6. Elementary Tap Dancing. 3 hrs. a week. Fee, \$1. (1) Brown, Whitney.

7-8. Modern Dance. Fundamentals of body and locomotor movement. A study of the elements of dance composition with opportunities for creative work. 3 hrs. a week. Fee, \$1. (1) Whitney.

9, 10. Adapted Activities. For students with postural defects and students whose activities must be restricted. 3 hrs. a week. Fee, \$1. Prereq., permission. (1) Brown.

18. Life Saving Methods. All techniques included in the test for the Senior American Red Cross Life Certificate are covered and the certificate is granted upon satisfactory completion of the required work. 3 hrs. a week. Fee, \$1. (1) Spencer.

22. Personal and Public Health. A course aiming to give the student knowledge of public, personal, and sex hygiene. (3) Hatcher.

101, 102. Sports. Activities are offered according to season. 3 hrs. a week. Fee, \$1. (1) Hatcher.

103-104. **Swimming.** Instruction in strokes and diving according to student's ability. 3 hrs. a week. Fee, \$1. (1) Spencer.

105, 106. **Tap Dance.** Tap dances of a skill level adapted to the group. 3 hrs. a week. Fee, \$1. Prereq., 6. (1) Brown.

107-108. **Modern Dance.** Fundamentals of dance with a study of the elements of dance composition and opportunities for creative work. 3 hrs. a week. Fee, \$1. Not open to those who have had P. W. 8. (1) Whitney.

109, 110. **Adapted Activities.** For students whose activities must be restricted. 3 hrs. a week. Fee, \$1. Prereq., permission. (1) Brown.

111-112. **Advanced Swimming.** Includes instruction in all strokes, diving, life saving, and watermanship in general. 3 hrs. a week. Fee, \$1. Prereq., permission. (1) Spencer.

113. **Hiking.** Hikes are varied as to distance and places visited. First aid and rules of the road for hikers are included. 3 hrs. a week. Fee, \$1. (1) LaTourrette.

114. **Camp Craft.** This includes outdoor cooking and practice in living comfortably in the out-of-doors. One overnight hike is required. 3 hrs. a week. Fee, \$1. (1) LaTourrette.

115-116. **Modern Dance, Advanced.** 3 hrs. a week. Fee, \$1. Prereq., 108. (1) Whitney.

121, 122. **Physical Activities.** Team and individual sports technique, dancing, swimming, squad work in self-testing activities, track and field. Students are given achievement tests and assigned activities and credit according to test results. 3 hrs. a week. Fee, \$1. (1-3) The staff.

125. **The Essentials of Girl Scouting.** A general introduction to the girl scout program. A week-end is spent at the local camp to give practical experience in conducting hikes and in doing out-door cooking. Hobbies in handicraft and in nature, and recreational games and activities are emphasized. (2) LaTourrette.

126. **Scouting Practice.** The course consists of actual participation as an assistant in one of the local troops. Prereq., 125. (1) LaTourrette.

127. **First Aid.** Consideration is given to theory and practice of first aid and massage. Some emphasis is placed upon the treatment of athletic injuries. Students are eligible to take the American Red Cross First Aid Instructor's examination. (2) La Tourrette.

131. **Mass Games.** Fee, \$1. (1) LaTourrette, Spencer.

132. **Physical Welfare Practice.** Practice of activities suitable for the elementary schools. 3 hrs. a week. Fee, \$1. (1) LaTourrette.

133. **Theory of Adapted Activities.** The organization of programs specifically adapted to the needs of physically handicapped individuals. The abnormal conditions of neuromuscular hypertension, weak feet, infantile paral-

ysis, scoliosis, cardiac defects, dysmenorrhea, post operative cases, etc. are described and therapeutic measures evaluated. Prereq., 152. (2) Brown.

134. **Practice of Adapted Activities.** A course in the practice of orthopedic work. Prereq., 133. (1) Brown.

135. **Maternal and Child Health.** The course deals with the normal biological and physiological processes of human reproduction together with the varied factors which contribute to abnormalities and mortality of both mother and child. (2) Druggan.

136. **Theory of Dance.** A study of the history, theory, principles, and philosophy underlying dancing from primitive times. Particular emphasis is given to trends in the modern dance. Prereq., one semester of dance. (1) Whitney.

137, 138. **Dance Problems.** Problems adapted to the individual, an opportunity for creative work. Compositions constructed, analyzed, and discussed. Directed readings on dance and related arts and a survey and evaluation of present theory and practice. Prereq., 116 and permission. (1-2) Whitney.

139. **Athletic Officiating.** Theory and practice of officiating field hockey and basketball. (1) Hatcher.

140. **Athletic Officiating.** Theory and practice of officiating volleyball, soccer, baseball, and track. (1) La Tourrette.

167a. **Teaching of Coaching.** See Ed. — Teaching Techniques.

167b. **Teaching of Coaching.** See Ed. — Teaching Techniques.

167s. **Teaching of Swimming.** See Ed. — Teaching Techniques.

171, 172. **Organization of Physical Activities.** Theory and practice of activities suitable for the junior and senior high schools. 1 lec. and 3 lab. Fee, \$1. (2) The staff.

175. **A School Physical Welfare Program.** (Summer session only.) A summer session substitute for P. W. 171 and 172. (2) Hatcher.

177. **Massage and Therapeutics.** An advanced course in the principles of massage and the practical application of these principles to athletic injuries, fractures, and paralysis. Prereq., 127. (2) Brown.

PHYSICS

The major requirement in physics for the B.S. degree is a minimum of 36 semester hours, including Physics 113, 114; 205; 206; 208; 219-220 or 253-254; 223-224 or 249, 250; 225, 226; and electives from the following: Physics 211; 225, 226 (2-6); 239-240; and 271-272.

1, 2. **The Physical World.** The principles underlying nature's activities, their relation to man's needs and interests, and their application in the devel-

opment of devices and conveniences in modern life. 2 lec. and 2 lab. Fee, \$3. (3) Bundy.

3, 4. **The Physical World.** Not open to students in the University College who are required to have a physical laboratory science. (3) Edwards.

5, 6. **Introduction to Physics.** Mechanics, heat, sound, electricity, magnetism, and light. Indicated for non-technical and pre-medic students. 3 lec. and 2 lab. Fee, \$4. (4) Edwards, Roseberry.

113, 114. **General Physics.** 3 lec. and 2 lab. Fee, \$4. Prereq., Math. 6 and Chem. 4. (4) McClure, Roseberry.

168p. **Teaching of Physics.** See Ed. — Teaching Techniques.

205. **Light: Introduction to Physical Optics.** The elementary theory of interference, polarimetry, and special topics of physical optics. Emphasis is placed on experimental and practical applications. It is recommended to be taken in conjunction with Physics 206. Prereq., 113, 114. (2) Roseberry.

206. **Experimental Physical Optics.** Practical experimental experience in the use and arrangement of apparatus which involve the principles of physical optics. Special attention is given to the diffraction grating, Michelson interferometer, spectrometer, and polarimeter. 2 lab. Prereq., 113, 114. Fee, \$1. (1) Roseberry.

208. **X-Rays.** A descriptive course of the principles and applications of X-rays to the problems of physics, medicine, and industry. A study of X-ray productions, absorption, scattering, refraction, crystal diffraction, radiography, X-ray therapy, and applications of X-rays to metallurgy. Prereq., 113, 114. (2) Roseberry.

211. **Physical Optics.** Designed to develop the theory of those phenomena of light which are characteristic of waves. The exact relations between refraction and wave length. The design of achromatic lenses. Diffraction phenomena of single and of many slits. Prereq., 113, 114, and Math. 118. (3) Roseberry.

219-220. **Electricity and Magnetism.** An advanced course including also electrochemical properties of various substances, the calculation of magnetic fields by integration methods, a study of transient currents through inductive and capacitive circuits. Prereq., 113, 114, and Math. 118. (3) Bundy.

223-224. **Ions, Electrons, and Ionizing Radiations.** Some of the topics are: properties of gaseous ions, the charge of an ion, ionization by collision, cathode rays, emission of electricity from hot bodies, X-rays, radium and its products, the electron theory of matter. Prereq., 113, 114, and Math. 118. (3) McClure.

225, 226. **Advanced Physics Laboratory.** Prereq., 113, 114, and Math. 118. The staff.

a. **Mechanics and Heat.** Determination of "g" with physical pendulum, with Kater's pendulum; torsional hysteresis, elastic curves, deter-

mination of coefficient of viscosity, surface tension; thermo-couples, heat content of a gas; use of the optical pyrometer. Fee, \$3. (3)

- b. Electricity and Magnetism. Calibration of a galvanometer, Raleigh potentiometer, dielectric constants, study of ballistic galvanometer, transients, magnetic hysteresis, use of the oscillograph. Fee, \$3. (3)
- c. Advanced Optics. Determination of refractive indices with the spectrometer and refractometer, measurement of wave length with the grating, use of the interferometer and the polarimeter, spectrum analysis. Fee, \$3. (3)
- d. Electronic Physics. Theory and use of the electrometer, the electro-scope for the comparison of radio-activities, the three-electrode tube, verification of Richardson's equation, the Tungar rectifier, conductivity of flames, determination of the charge of the electron, Laue and powder methods for the determination of crystal structure. Fee, \$1 for each credit hour. (1-3)
- e. Sound. Frequency measurements of strings, forks, pipes, plates, bars, and cavities. Cathode ray oscilloscope, and neon stroboscope. Sound intensity measurement with Raleigh disk and sound intensity meter. Mechanical and acoustical impedance of speakers. Sound velocity measurements. Fee, \$1 for each credit hour. Prereq., 113, 114, and Math. 118. (1-3)

239-240. General Thermodynamics. Prereq., 113, 114, and Math. 118. (3) McClure.

249, 250. Introduction to Modern Physics. Some topics are: elementary quantum of electricity, corpuscular radiations, elementary quantum action, spectra of hydrogen and ionized helium, X-ray spectra, optical spectra, and molecular spectra. Prereq., Math. 118. (2) Edwards.

253-254. Advanced Sound. The fundamentals of sound theory, beginning with a study of vibratory motion in strings, rods, plates, and pipes; analysis of sound, transmission theory of sound, measurement of sound intensity, interference patterns, and stationary waves. Prereq., 113, 114, and Math. 118. (2) Green.

271-272. Physics of the Air. An advanced technical study of the mechanics and thermodynamics of the atmosphere, atmospheric electricity and auroras, meteorological acoustics, atmospheric optics. Prereq., 113, 114, and Math. 118. (3) McClure.

305-306. Theoretical Physics. Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamiltonian-Jacobi equation, hydrodynamics, statistical mechanics, kinetic theory. Prereq., 225, 226, and Math. 215. (3) Edwards.

311-312. Advanced Atomic Structure and Theory of Quanta. Elementary constituents of the atom, hydrogenic atoms and their spectra, general theorems of optical spectra, old quantum theory, X-ray and molecular spectra. Prereq., 225 and 226. (3) Roseberry.

381. Research in Physics. Fee, \$1 for each credit hour. Prereq., 225 and 226. (1-6) The staff.

391. Seminar in Physics. Prereq., 15 hrs. (1) The staff.

395. Thesis. (4-6) The staff.

PSYCHOLOGY

1. General Psychology. An elementary, scientific study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Fee, \$1. (3) The staff.

2. General Psychology. Emphasis upon the main problems of psychology, giving the points of view of the different schools. Many fields of psychology are rapidly surveyed. Prereq., 1. (3) Scott.

3. Child Psychology. Topics considered: sensory life of child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prereq., 1. (3) Porter.

4. Business Psychology. A survey of general psychological principles essential for effective adjustment of the individual in business and industry. Prereq., 1. (3) Paulsen.

5. Educational Psychology. The nature and rate of the learning process. The influence upon learning efficiency of such factors as heredity and environment, maturation, emotion, motivation, etc. Fee, \$1. Prereq., 1. (3) Lehman, Anderson, Patrick, Gentry, Paulsen.

6. The Psychology of Advertising and Selling. Prereq., 1. (3) Anderson.

7. General Psychology with Laboratory. 3 lec. and 2 lab. Fee, \$4. (4) Paulsen, Gibbons.

8. Introduction to Applied Psychology. The application of psychological knowledge to everyday life situations. Prereq., 1. (3) Scott, Paulsen.

10. Introduction to Psychology of Personality. The elementary facts and principles of personality; its measurement by modern methods and the practical application of these measurements particularly to the problems of the student. Prereq., 1. (3) Porter.

109. Experimental Psychology. Training in the scientific methods and tools of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. 2 lec. and 4 lab. Fee, \$3. Prereq., 1. (3) Paulsen.

113. Psychology of Junior and Senior High School Pupils. A study of the contributions to adolescent personality of physical growth, glandular changes, and emotions; interests, religious experience, and maladjustments are also considered. Prereq., 1. (2) Gentry.

116. **Psychology of Individual Differences.** The extent and the nature of individual differences, the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Miscellaneous applications are also considered. Prereq., 1. (3) Lehman.

201. **Advanced Experimental Psychology.** Research on a topic selected by the student. Fee, \$3. Prereq., 1, 109, and 3 hrs. additional. (3) Paulsen.

203. **Mental Measurements.** The administration, methods, and results of individual and group intelligence tests. 2 lec. and 1 lab. Fee, \$1. Prereq., 6 hrs. (3) Porter, Anderson, Paulsen.

204. **Psychology of Exceptional Children.** The growth and development of non-typical children with special reference to the nature, the cause of, and the possibility of remedial treatment. Speech disorders, left-handedness, deafness, blindness, delinquency, psychopathy, special talents and defects, and other characteristics of extreme deviates are considered. Prereq., 8 hrs. (3) Lehman.

205. **Clinical Psychology.** Lectures, discussions, and observations of selected cases. Survey of methods in clinical diagnosis of problem children and adults. Prereq., 9 hrs. including 203. (3) Gentry.

207. **Comparative and Genetic Psychology.** Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psycho-biological approach is maintained. 2 lec. and 2 lab. Fee, \$3. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. (3) Patrick.

209. **Motivation.** The dynamics of animal and human behavior: a study of drives, desires, wishes, incentives, etc. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. (3) Patrick.

210. **Mental Hygiene.** The course aims to evaluate and synthesize information bearing upon mental health from the following fields: psychology, psychiatry, physiology, medicine, and sociology. Prereq., 8 hrs., or 6 hrs. and 6 hrs. sociology. (3) Patrick.

212. **Abnormal Psychology and Mental Hygiene.** Considers man's mental deviations from the normal; the theory, application, and limitations of psycho-analysis; methods of studying abnormal mental processes. Clinics at hospitals. 2 lec. and 1 lab. Fee, \$1. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. (3) Porter.

214. **Psychology of Religion.** Prereq., 6 hrs. and permission, or 6 hrs. and 6 hrs. philosophy. (2) Anderson.

215. **Social Psychology.** An introductory study of the social-mental relations between individuals, significance of instincts, habit formation, and reflection in human social life. Methods of investigating social behavior. Prereq., 6 hrs. (3) Porter.

217. **The Psychology of Personality.** Influence of home and school on training and development of children's personality; also adult personality in business and social life. Prereq., 8 hrs. (3) Porter.

219. **Advanced Clinical Psychology.** Etiology of behavior disturbances. Symptomatic approach to clinical diagnosis emphasized. Prereq., 12 hrs. including 205. (3) Gentry.

220. **The Psychology of Personnel.** The study and solution of significant human problems in modern industrial, commercial, and educational institutions. To train students for positions as personnel workers. Prereq., 8 hrs. (2) Porter.

225. **Minor Problems in Psychology.** Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Prereq., 8 hrs. and permission. (2-6) The staff.

233. **Learning and Memory.** Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 8 hrs. (2) Anderson.

235. **History of Psychology.** The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 8 hrs. (2) Scott.

237. **Feelings, Emotions, and Aesthetics.** An analysis of studies of the feelings, emotions, and sentiments, and the role they play in aesthetic appreciation, particularly music and art. Prereq., 6 hrs. (2) Patrick.

241. **Current Psychological Literature.** An attempt to acquaint the student with the leading psychological journals, recent books, and their current contribution. Prereq., 9 hrs. (2) Porter.

278. **Advanced Educational Psychology.** A comprehensive study of the acquisition of important skills and knowledges, interests, attitudes, and ideals; problem solving; expression and creative activity; social growth and character formation. Prereq., 5. (3) Lehman.

291. **Seminar in Psychology.** Reports on recent books and articles. Methods of investigation and statistical treatment emphasized. Prereq., 12 hrs. and permission. (2-6) Porter.

302. **Advanced Mental Measurements.** Special emphasis on use of performance and special tests. Clinical and diagnostic significance of special tests and of test items within the Stanford-Binet. 1 lec. and 1 lab. Fee, \$1. Prereq., 15 hrs. (2) Anderson.

381. **Research in Psychology.** Prereq., 15 hrs. and permission. (2-4) The staff.

391. **Advanced Seminar in Psychology.** Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Prereq., 15 hrs. and permission. (2-4) The staff.

395. **Thesis.** (4-8) The staff.

ROMANCE LANGUAGES

The major requirement in one of the Romance Languages, French, Italian, or Spanish, for the A.B. degree is a minimum of 20 semester hours above the first year of the language, Fr., It., or Span. 1-2. The major requirement in Romance Languages or in Romance Philology for the A.B. degree is a minimum of 20 semester hours above course 1-2 in one language with at least one year in each of the two remaining languages offered.

FRENCH

1-2. **Beginning French.** The essentials of grammar, drill in pronunciation, conversation, and reading. (4) The staff.

101-102. **Intermediate French.** A review of grammar, composition, and the reading of a variety of short stories, novels, and plays from modern French literature. Prereq., 2 or 2 yrs. high school French. (4) The staff.

119, 120. **French Civilization.** A study of the geography, history, life, current events, customs, government, education, science, press, art, and music of France. Readings in French and discussions in English. Prereq., 102. (2) Noss.

123, 124. **French Conversation.** The course affords an opportunity to acquire facility in the use of spoken French. The work is based in part on a text dealing with French life and on French periodicals. It is recommended that the course be taken with one of the literature courses. Prereq., 102 or 3 yrs. high school French. (1) Noss.

165f. **Teaching of French.** See Ed.— Teaching Techniques.

165 o.p. **Teaching of French and Advanced French Grammar.** (1939-1940) See Ed. — Teaching Techniques.

201, 202. **Survey of French Literature.** (1939-1940) Lectures, readings, and reports affording a general view of the subject from the beginning to the present time. Lectures are given in French with regular class tests in English. Special topics for investigation by advanced students. Prereq., 102. (1-4) Wilkinson.

203, 204. **Readings from French Literature.** Selections vary with the needs of the class or the student. Prereq., 102. (1-4) The staff.

211, 212. **Seventeenth Century Drama.** A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prereq., 102. (3) Noss.

215. **French Phonetics.** A study of French pronunciation with the help of international phonetic symbols. Analysis of French sounds and their formation, principles of syllabication, stress, quantity, linking, and intonation. Elements of diction. Extensive use of phonograph records. Prereq., 102. (2) Noss.

219, 220. **French Romanticism.** A study of the development of lyric

poetry, the novel, and the drama during the first half of the nineteenth century. Prereq., 6 hrs. beyond 102. (2) Noss.

225. **Old French Literature.** (1939-1940) A study of French literature to the end of the fifteenth century. A modern French translation accompanies the Old French in the text used. No previous knowledge of Old French is required. Prereq., 6 hrs. beyond 102. (2) Noss.

228. **Sixteenth Century French Literature.** (1939-1940) A history of the development of French thought during the Renaissance as seen in the works of Rabelais, Calvin, the Pleiade, Montaigne, and others. Prereq., 6 hrs. beyond 102. (2) Noss.

231, 232. **Seventeenth Century French Literature.** (1939-1940) A study of seventeenth century literature, with the exception of the drama. Selected readings from Malherbe, Descartes, Pascal, La Fontaine, Mme. de Sevigne, Boileau, Mme. de La Fayette, La Rochefoucauld, La Bruyere, and Fenelon. Prereq., 102. (2-3 as scheduled) Noss.

235. **Eighteenth Century French Literature.** A study of the works of the chief dramatists of this period, including Lesage, Voltaire, Marivaux, Diderot, Sedaine, and Beaumarchais. Prereq., 102. (2) Renkenberger.

236. **Eighteenth Century French Literature.** A study of the literature of this period exclusive of the drama. Works of Montesquieu, Diderot, Voltaire, Rousseau, and Chenier are read. Prereq., 102. (2) Renkenberger.

239-240. **Nineteenth Century French Drama.** History of the French drama beginning with the pre-romantic movement and continuing to the present. Lectures in French with regular class tests in English. Special topics for investigation by advanced students. Collateral readings and reports. Prereq., 102. (1-4 as scheduled) Wilkinson.

243, 244. **Advanced French Composition.** Includes drill in pronunciation. Prereq., 102. (1-2 as scheduled) Wilkinson.

250, 251. **Modern French Fiction.** A reading course on the novel from 1880 to the present. The ability to understand and use spoken French with ease is not required. Prereq., 102. (3) Noss, Leete.

271. **Advanced French.** Specialized courses conducted in French designed to meet the special interests of advanced students. Prereq., 14 hrs. beyond 102. (1-24) Noss.

- b. Boileau
- d. Modern French Drama
- m. Moliere
- n. Modern French Novel
- po. Nineteenth Century Poetry
- pr. Seventeenth Century Prose
- r. Racine
- s. Mme. de Sevigne

281. **Research in French Language and Literature.** A course designed to promote independent work in the study of special linguistic and literary

problems. Prereq., 14 hrs. beyond 102 and permission. (1-4 each semester)
The staff.

321-322. Romance Philology (Old French). See Romance Philology.

325-326. Romance Philology (Southern French and Catalan). See Romance Philology.

395. Thesis. (4-8) The staff.

ITALIAN

1-2. Beginning Italian. Pronunciation, the fundamental principles of Italian grammar, and practice in the use of the language. (1-5 as scheduled) Wilkinson, Ondis.

101-102. Intermediate Italian. A course for reviewing grammar, studying idioms, and reading freely in modern Italian literature with some emphasis on diction and conversation; also a systematic study of the verb. Prereq., 2 or 2 yrs. high school Italian. (1-4 as scheduled) Wilkinson, Ondis.

103. Italian Culture and Civilization. Background of the culture of Italy as reflected in its art, literature, social and political institutions. Regional customs. Given in English. (1) Ondis.

201, 202. Survey of Italian Literature. Brief outline of the history of Italian literature given in English or in Italian according to the nature and preparation of the class. Prereq., 102. (1-3 as scheduled) Wilkinson, Ondis.

203, 204. Readings from Italian Literature. Selections vary with the needs of the class or the student. Prereq., 102. (1-4) The staff.

209, 210. Italian Composition. An advanced course. Prereq., 102. (1-2) Wilkinson, Ondis.

251. Advanced Italian. Advanced work in language and literature, with special instruction of a technical character in Italian. Individual work done under the guidance of instructors. Prereq., 20 hrs. (1-32) Wilkinson, Ondis. The offerings are as follows:

- a. General introduction to the study of the literature of the thirteenth century, including the chief philological principles involved in the formation of Old Italian.
- b. The fourteenth century, including special study of Dante, Petrarch, or Boccaccio.
- c. The Renaissance in Italy.
- d. Il Seicentismo. Decadence and affectation in Italian letters, with consideration of analogous movements in other modern literatures.
- e. The eighteenth century, including Goldoni and Alfieri.
- f. The nineteenth century. Romanticism and the Risorgimento.
- g. Contemporary Italian literature.
- h. Storia dell' Italia Moderna.

331-332. Romance Philology (Old Italian). See Romance Philology.

395. Thesis. (4-8) The staff.

ROMANCE PHILOLOGY

1. Pronunciation of Romance Languages. Pronunciation of French, Italian, and Spanish. No previous knowledge of the languages is required or presupposed. (1) Wilkinson.

225-226. General Romance Linguistics. Introduction to graduate courses in philology. A study of Vulgar Latin forms in connection with the general philology of French, Italian, Portuguese, and Spanish. Correct pronunciation of the modern languages is stressed. Prereq., Fr., It., or Span. 102, and another Rom. Lang. 2 or Lat. 102. (1) Wilkinson.

321-322. Romance Philology (Old French). Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in French. Prereq., 16 hrs. in French and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

325-326. Romance Philology (Old Provençal — Southern French and Catalan). Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Provençal. Prereq., 16 hrs. in each of two Romance languages or in one Romance language and Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

331-332. Romance Philology (Old Italian). Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Italian. Prereq., 16 hrs. in Italian and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

341-342. Romance Philology (Old Spanish and Portuguese). Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Spanish and Portuguese. Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

391. Seminar in Romance Philology. Prereq., 226, Rom. Lang. 102 in two of the languages, and Rom. Lang. 2 in the third. (2-4) The staff.

395. Thesis. (4-8) The staff.

SPANISH

1-2. Beginning Spanish. Introduction to the rudiments of Spanish grammar. Reading and practice in conversation. (4) The staff.

101-102. Intermediate Spanish. Review of grammar, study of idioms, composition, conversation, varied reading in modern literature. Prereq., 2 or 2 yrs. high school Spanish. (4) The staff.

103. **Spanish Culture and Civilization.** The history, literature, and cultural development of Spain. The course is conducted in English. (1) Whitehouse.

112, 113. **Spanish Composition and Conversation.** Prereq., 102. (2) Whitehouse, Ondis.

165s. **Teaching of Spanish.** (1939-1940) See Ed. — Teaching Techniques.

201, 202. **Survey of Spanish Literature.** Historic and literary study of Spain from the middle ages to the present time. Prereq., 102. (3) Whitehouse, Ondis.

203, 204. **Readings from Spanish Literature.** Selections vary with the needs of the class and the student. Prereq., 102. (1-4) The staff.

207. **The Golden Age.** Historic and literary study of the sixteenth and seventeenth centuries. Works of the leading dramatists, as Lope de Vega, Calderon, Tirso de Molina, etc., and some prose, except Cervantes, are read. Prereq., 102. (2-3 as scheduled) Whitehouse, Ondis.

208. **Cervantes.** (1939-1940) The chief works of Cervantes are studied, with particular attention to the *Novelas Ejemplares* and the *Quijote*. Prereq., 102. (3) Whitehouse, Ondis.

209, 210. **Old Spanish.** Readings in Spanish literature prior to the fifteenth century. The *Poema del Cid* is read and studied with attention given to the development of the Spanish language. Prereq., 102. (1) The staff.

211. **Spanish American Literature.** Important literary productions of the chief Spanish American countries are read. The Modernista movement is studied in its greatest exponent, Ruben Dario. Prereq., 102. (2-3) Whitehouse, Ondis.

212. **Nineteenth Century Spanish Literature.** Prereq., 102. (2) Whitehouse, Ondis.

213. **Contemporary Spanish Literature.** Prereq., 102. (2) Whitehouse, Ondis.

217. **History of Spain.** Prereq., 102. (1) Whitehouse, Ondis.

251. **Advanced Spanish.** Prereq., 20 hrs. (1-32) Whitehouse, Ondis.

a. Early period. The Epic and Chronicles.

b. Early prose and poetry. Don Juan Manuel and the Arcipreste de Hita.

c. The Romancero. The Romances of Chivalry and the realistic novel.

d. Sixteenth century. The mystics. Three types of novel: moorish, pastoral, and picaresque.

e. Seventeenth century. The works of Cervantes, except the *Quijote*, and the chief dramatists.

f. Development of the theatre in the seventeenth century.

g. Recent developments in Spanish literature: novel, drama, and essay.

h. Benito Perez Galdos. Novels.

291. Seminar in Spanish. Prereq., 102. (2-4) Whitehouse, Ondis.

341-342. Romance Philology (Old Spanish and Portuguese). See Romance Philology.

395. Thesis. (4-8) The staff.

ROMANCE PHILOLOGY

(See Romance Languages)

SECRETARIAL STUDIES

(See Commerce)

SOCIOLOGY

1. **Social Development.** The nature and types of social unity; the means, the forms, and the areas of social experience, and the development, diffusion and transmission of culture. (3) Ash.

Note—It is recommended that this course precede or follow Ec. 1, Economic Development, thus giving University College students a one year introductory course in social science.

3. **Educational Sociology.** Education as a social process. The pupil as a person and a member of various groups. The sociological aspects of the curriculum, classroom organization, and teaching. The school in its relation to the community. (2) Jeddeloh.

5. **Rural Sociology.** The composition of rural population, the rural family and standards of living, and an analysis of rural institutions. The fundamental differences between rural and urban groups, and the major rural social processes. (2) Taylor.

6. **Rural Life Movement.** A general review of the various movements and agencies which tend to improve rural life: Grange, Farm Bureau Federation, American Country Life Association, and 4H Clubs. Programs for the improvement of rural society. (2) Taylor.

101. **Principles of Sociology.** The basic facts and principles of human society, of factors and forces which condition social life, and of major concepts and techniques employed in sociological investigation and interpretation. (3) Taylor.

103. **Social Problems.** A study of major social problems as forms of disorganization of personalities, of social institutions, and of communities as these are influenced by various factors, particularly social change. Prereq., 101. (3) Jeddeloh.

104. **Community Organization.** Community life from primitive times to the present. Selected rural and urban communities studied. The place,

problems, and possibilities of the community in modern social life. Prereq., 6 hrs. (2) Taylor.

105. **Migration and Race Relations.** Racial groups in historic and contemporary society. The migrations of peoples, the problems of immigration in the United States, the effects of restricted immigration, the behavior and social status of minority groups in the United States. Prereq., 3 hrs. (3) Jeddeloh.

110. **The Psychological Factor in Human Society.** The psychological conditioning of human behavior in social and cultural situations, the psychology of social institutions, the collective behavior of masses, crowds, organized groups, and the factors in specific social problems. Prereq., 3 hrs. (3) Taylor.

122. **Development of Western Civilization.** The civilizations of the Hebrews, Egyptians, Greeks, and Romans with special emphasis on those elements in their culture which have been incorporated in modern western civilization. A critical study of the processes and experiences of the peoples of medieval Europe in building a composite culture. Prereq., 3 hrs. (3) Ash.

125. **Cultural Anthropology.** A study of primitive people and their institutions in prehistoric and modern times for the purpose of recognizing universal human traits and the backgrounds of modern civilization. Prereq., 3 hrs. (3) Taylor.

169s. **Teaching of Social Science.** See Ed. — Teaching Techniques.

201. **Industrial Sociology.** The course interprets and evaluates the theories and principles which underlie the present organization of business. The major emphasis is placed upon the social consequences of the mechanical interdependence of people and of an economy of scarcity. Prereq., 6 hrs. (3) Ash.

204. **Sociology of Recreation.** (1939-1940) The development of recreation under varying social conditions with special emphasis on the fundamental patterns of recreational activity. The psychosociological effect of an industrial civilization. The commercialization of recreation and its social effects. Modern community programs. Prereq., 6 hrs. (3) Jeddeloh.

208. **The Family.** A historical study of human marriage and of the different types and forms of family life at different times and among different peoples, followed by a consideration of forces and influences affecting the stability of the modern family. Prereq., 6 hrs. (3) Ash.

209. **Social Control.** A critical comparison and evaluation of the methods by which society maintains its ascendancy over the individual, creates standards of value and conduct, and unites various types and classes of people into one social body. Prereq., 6 hrs. (3) Ash.

210. **Social Theory.** The sociological ideas of August, Comte and Herbert Spencer. The leading contributions of sociologists both abroad and in the United States down to the present. Prereq., 6 hrs. (3) Taylor.

211. **Criminology and Penology.** The course surveys general facts with respect to crime, the criminal, and his treatment by society. Particular attention is paid to measures and theories which point in the direction of a scientific criminology. Prereq., 6 hrs. (3) Jeddelloh.

212. **Population Problems.** Population studied from the standpoint of numbers and quality in the United States and other sections of the world. Differential fertility, birth control, eugenics, and other problems of population are treated. Prereq., 6 hrs. (3) Taylor.

218. **Urban Sociology.** Cities as dynamic mechanisms in modern culture. A brief survey of historical types of cities and their structures. The contemporary city. The emerging theories, programs, and experiments of city and regional planning. Prereq., 6 hrs. (3) Jeddelloh.

221. **Contemporary Social Movements.** The better known utopian and socialistic philosophies. The two significant social experiments of the present time; viz., communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prereq., 6 hrs. (3) Taylor.

222. **Juvenile Delinquency.** Causative factors in juvenile delinquency, characteristics of delinquents, community control of delinquency, juvenile court procedure, probation, and correctional training in institutions. Field contact and the handling of realistic data. Prereq., 6 hrs. (3) Jeddelloh.

223. **Poverty and Economic Insecurity.** Poverty and economic insecurity with emphasis on measures of treatment and prevention. Social insurance and recent legislation for social security in the United States. Prereq., 6 hrs. (3) Shannon.

224. **Child Welfare.** Conditions, problems, programs, and agencies of child welfare, and the more important techniques of study, protection, and reconstruction of maladjusted children. Child welfare problems in Ohio and the findings of the White House Conference receive special consideration. Prereq., 6 hrs. (3) Shannon.

235. **Systems of Public Welfare.** Programs for the protection and care of socially, physically, and mentally handicapped as expressed in legislation and in work of public departments of cities, counties, and states. Attention is given to changing functions of governmental departments and to the development of preventive and constructive services. Prereq., 6 hrs. (3) Shannon.

236. **Propaganda.** (1939-1940) Methods and techniques of propaganda, its legitimate uses and its abuses, its relation to such social phenomena as stereotypes, sentiments, public opinion, social attitudes, and mass convictions. Prereq., 6 hrs. (3) Ash.

238. **Social Dynamics.** (1939-1940) Contemporary theories of social change, of the analysis and measurement of social trends, the casual interrelation between the scientific-technological culture traits and social institutions, and the possibility of social planning. Prereq., 6 hrs. (3) Jeddelloh.

239-240. **Social Service.** Social case work. Problems of individuals

and families in their social relationships. Soc. 240 emphasizes family social work and social case work with children. 5 to 7 hours a week in field work in social agencies of the county. Fee, \$5. Prereq., 12 hrs. (5) Shannon.

253. **Institutional Social Service.** (Summer session only.) Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution under the immediate supervision of the institutional staff. Prereq., 12 hrs. (5) Jeddeloh.

255. **Internship Training in Juvenile Courts.** The course includes regular full time staff duties in juvenile courts under controlled conditions supplemented by additional training by officers of the courts and members of the department. Prereq., 12 hrs. (6) Jeddeloh.

381. **Technique and Methodology of Social Investigation.** Analysis study of representative examples of recent sociological research and application of the experience gained to the investigation of social problems of limited compass. Prereq., 12 hrs. (2-3) The staff.

391. **Seminar in Sociology.** Prereq., 15 hrs. (2-3) The staff.

395. **Thesis.** (4-8) The staff.

SPANISH

(See Romance Languages)

SPEECH

(See Dramatic Art)

STATISTICS

(See Commerce, Education, and Mathematics)

SUPERVISION AND GUIDANCE OF STUDENT LIFE

391. **Seminar in Student Life.** A study of the management and direction of women's dormitory units: personality and health adjustments, the objectives and philosophy of extra-class activities, orientation of freshmen to college life. The relationship between the academic and the social life of students forms the basis of discussion and reports. Problems are discussed from the standpoint of the psychological, sociological, and academic bearings on student life. Prereq., 18 hrs. social sciences. (2-6) Voigt.

395. **Thesis.** An original research problem immediately related to the field of administration and counselling constitutes the basis of the thesis. (4-6) Voigt.

A Short Course for Deans of Women and Advisers of Girls. This course will be offered from June 15 to June 29 inclusive, without credit.

The course is designed particularly for those who are engaged in the work of advising and counselling, as well as those seeking to know more about the field before making a final decision relative to entering it. The course consists of seminars, lectures, round tables, forums, and social hours. Four hours daily is spent in classroom work. Minor research problems are carried on in closely related fields of interest; and in so far as time permits, a survey is made of literature and studies in the field of guidance. The course is directed by the dean of women. Lecturers are chosen from the fields of philosophy, education, psychology, and sociology. Much pleasure and value is derived from the housing arrangement by which the group lives together as a unit for the period of the course. Board and room for the period amounts to \$14. An incidental fee of \$2.75 insures an adequate mimeographed report of the entire series of lectures and discussions. No credit. Voigt.

ZOOLOGY

The major requirement in zoology for the A.B. degree is a minimum of 24 semester hours, and for the B.S. degree a minimum of 36 semester hours, in courses approved by the department advisers.

Curricula are outlined by the College of Arts and Sciences for students interested in pre-medical, pre-dental, pre-nursing, and medical-technology courses, and in wild life control including conservation service and entomology.

3-4. General Zoology. A survey of zoological and biological principles. Chief topics: organization and physiology of a typical animal; review of the animal kingdom including references to economic importance, habits, life histories; principles involved in the evolution of organisms and society; distribution and relation of animals to their environment; doctrine of evolution; principles of heredity. 2 lec. and 2 lab. Fee, \$3. (3) Kreckler, Stehr, Gier.

103. Readings in Biology. A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Fee, \$1. Prereq., 2 or high school biology. (1) Kreckler.

107. Principles of Heredity. An introduction to heredity. Fundamental principles and mechanism of heredity and a review of what is known regarding heredity in man. Consideration of practical applications to heredity in social welfare, public affairs, and race betterment. Prereq., 4 or 6 hrs. botany. (3) Kreckler.

110. Organic Evolution. A consideration of the evidence for evolution and the factors involved in the process, theories of the method of evolution, and the history of the evolutionary conception bearing upon human civilization. Prereq., 4 or 6 hrs. botany. (3) Miller.

112. Comparative Vertebrate Anatomy. A comparative study of the

skeleton and organ systems of selected vertebrates such as the shark, frog, turtle, and mammal. 2 lec. and 4 lab. Fee, \$4. Prereq., 4. (4) Elliott.

115. **Elements of Anatomy.** A study of the anatomy of a mammal illustrated by the dissection of a cat. Attention is given chiefly to the skeleton, muscles, and viscera. For physical welfare students and majors in zoology with the exception of pre-medical students. 2 lec. and 2 lab. Fee, \$3. Prereq., 4. (3) Elliott.

118. **Ornithology.** A general study of bird life emphasizing identification, migration, life histories, and economic value of birds. Field trips are taken to identify the birds of the vicinity. 2 lec., 2 lab., and field work. Fee, \$3. Prereq., 4. (3) Gier.

119. **General Entomology.** A study of the structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec. and 4 lab. Fee, \$4. Prereq., 4. (4) Stehr.

125. **Elementary Physiology.** A course in human physiology which considers the general physiological principles of irritability, muscle and nerve physiology, blood, circulation, respiration, digestion, nutrition, excretion, central nervous system, special senses, reproduction, and the endocrine glands. 2 lec. and 4 lab. Fee, \$4. Prereq., 4; a knowledge of chemistry desirable. (4) Rowles.

128. **Histology.** A study of tissues illustrated by vertebrate material to acquaint the student with the finer structure of the skeletal, muscular, digestive, circulatory, respiratory, urinary, reproductive, and nervous systems. 2 lec. and 4 lab. Fee, \$4. Prereq., 112 or 115. (4) Elliott.

133. **Animal Microtechnic.** The principles and methods of preparing animal material for microscopic study. Practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories. 1 lec. and 6 lab. Fee, \$3. Prereq., 4. (3) Elliott.

141. **Elementary Bacteriology.** Topics considered are: morphology and physiology of bacteria, staining reactions, preparation of media and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 211. 2 lec. and 2 lab. Fee, \$3. Prereq., 4, 6 hrs. botany, or 8 hrs. chemistry. (3) Frey.

145. **Clinical Technic.** The theory and practice of making various tests used in laboratories of clinical pathology: blood counts, blood matching and typing, blood chemistry, urinalysis, gastric analysis, sputum examinations, functional tests, serological methods including Wasserman's, applied bacteriology, and the making of vaccines. Fee, \$1 for each credit hour. Prereq., 211 and permission. (2-8) Frey.

168z. **Teaching of Zoology.** See Ed. — Teaching Techniques.

201. **Vertebrate Embryology.** The development of vertebrates illustrated by the chick and the pig. A preliminary consideration of fertilization and maturation followed by a study of the formation of foetal membranes and

the development of the various organs. 2 lec. and 6 lab. Fee, \$4. Prereq., 112. (4) Elliott.

202. Mammalian Anatomy. The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Fee, \$4. Prereq., 201. (4) Elliott.

204. Vertebrate Neurology. A comparative study of brain and spinal cord of mammals with emphasis upon the reaction systems. A preliminary study of the embryological development and general histological structure of the nervous system. Dissections of the brain of shark, sheep, and man are followed by a microscopic study of various levels of brain and spinal cord. 2 lec. and 4 lab. Fee, \$4. Prereq., 112, or 4 and 15 hrs. psychology. (4) Elliott.

205. Principles of Physiology. Fundamental principles of the activity of living things, the physical-chemical composition of living material, the functions of cell components, properties of solutions, membrane phenomena, amoeboid and ciliary movement, muscle and nerve, enzymes, secretions, and biological media. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Fee, \$4. Prereq., 4 and Chem. 2 or 4. (4) Rowles.

206. Comparative Invertebrate Physiology. Application of fundamental principles of physiology to invertebrate groups. Circulation, respiration, digestion, nutrition, excretion, reproduction, nervous system, and irritability including behavior; the effect of changing environmental factors on these mechanisms. 2 lec. and 4 lab. Fee, \$4. Prereq., 205. (4) Rowles.

207. Mammalian Physiology. A study of the physiology of mammals: blood and lymph, heart and circulation, respiration, digestion, metabolism, endocrine glands, excretion, special senses, central nervous system, and reproduction. 2 lec. and 4 lab. Fee, \$4. Prereq., 112 and 205. (4) Rowles.

209. Biological Chemistry. A brief introduction to physical chemistry of true and colloidal solutions; fundamental principles of enzyme action; chemical nature of and tests for: carbohydrates, proteins, fats, digestion, and metabolism; chemical analysis of: blood, lymph, bile, faeces, milk, epithelial and connective tissue, and urine. 2 lec. and 4 lab. Fee, \$4. Prereq., 4 hrs. physiology and Chem. 115 and 119. (4) Rowles.

211. General Bacteriology. A study of the structure, classification, and relationships of bacteria, preparation of cultures, staining technic, and biochemical reactions. Not open for graduate credit to students majoring in bacteriology. 2 lec. and 4 lab. Fee, \$4. Prereq., 4 and Chem. 115. (4) Frey.

212. Pathogenic Bacteriology. Bacteria in relation to human disease. The culture and identification of disease producing bacteria, protozoa, higher fungi, and filterable viruses. Methods of transmission and means of protection, and disease symptoms and immunity. 2 lec. and 4 lab. Fee, \$4. Prereq., 211. (4) Frey.

213. Bacteriological Review. An advanced theoretical course in bacteriology reviewing the entire field. Special reference is made to dissociation,

growth curves of bacteria, anaerobiosis, oxidation and reduction, metabolism of bacteria. Prereq., 8 hrs. bacteriology and permission. (2) Frey.

216. Animal Parasites. A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. 2 lec. and 4 lab. Fee, \$4. Prereq., 10 hrs. and permission. (4) Krecker.

218. Economic Entomology. (Not offered in 1938-1939.) Insects of economic importance in the United States with special reference to species common in southeastern Ohio. Life histories, types of injury, habits, and control measures. 2 lec. and 4 lab. Fee, \$4. Prereq., 119. (4) Stehr.

220. Advanced Entomology. Intensive study of insect morphology and of the principles and methods of insect classification and identification, with special emphasis on the more extensive orders. 2 lec. and 4 lab. Fee, \$4. Prereq., 119. (4) Stehr.

225-226. Advanced Invertebrate Zoology. (Not offered in 1938-1939.) A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec. and 4 lab. Fee, \$4. Prereq., 10 hrs. and permission. (4) Stehr.

228. Animal Ecology. A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal association. 2 lec. and 4 lab. or field work. Fee, \$4. Prereq., 10 hrs. and permission. (4) Stehr.

233. Biology of Vertebrates. A study of the vertebrates emphasizing their identification, life histories, habits, distribution, and economic relationships. 2 lec. and 4 lab. or field work. Fee, \$4. Prereq., 10 hrs. and permission. (4) Gier.

234. Aquatic Management. A practical course dealing with the manipulation of the natural factors affecting a maximum sustained yield of our aquatic resources. Includes applications of limnology and ichthyology with emphasis on ecological relationships and habitat preferences of aquatic organisms. 1 lec. and 4 lab. or field work. Fee, \$3. Prereq., 228 or 233. (3) Roach.

243. Biological Studies. Semi-independent studies under the guidance of an instructor. Fee, \$1 for each credit hour. Prereq., 10 hrs. and permission. (2-8 in any of the following):

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology, and in serology. Frey.
- b. Ecology—field and laboratory studies of the relation between animals and their surroundings. Krecker, Stehr, Gier, Roach.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments, pedigree analysis, and library work in the field of heredity.

- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Krecker, Stehr.
- f. Parasitology—animal parasites. Krecker.
- g. Physiological Zoology—physiological and related experimental studies. Rowles.
- h. Readings in Biology—readings dealing with biological history, theory, and advances. Krecker.
- i. Technicians' Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
- j. Vertebrate Zoology—classification, embryology, gross and microscopic anatomy, economic control of vertebrates. Elliott, Gier.

291. Seminar in Zoology. A study of special topics and reports on current literature. Prereq., 16 hrs. and permission. (1-4) Krecker.

381. Research in Biology. Research work in bacteriology, ecology, entomology, invertebrate zoology, parasitology, physiological zoology, and vertebrate zoology. This course fulfills the thesis requirement. Fee, \$1 for each credit hour. Prereq., 20 hrs. and permission. (2-8) Krecker, Rowles, Elliott, Frey, Stehr, Gier.

ENROLLMENT

Distribution by Counties of Ohio, States, and Foreign Countries
1937-1938

STATE OF OHIO

Adams -----	7	Licking -----	57
Allen -----	20	Logan -----	21
Ashland -----	7	Lorain -----	39
Ashtabula -----	45	Lucas -----	12
Athens -----	640	Madison -----	6
Auglaize -----	5	Mahoning -----	141
Belmont -----	92	Marion -----	24
Brown -----	3	Medina -----	15
Butler -----	34	Meigs -----	131
Carroll -----	5	Mercer -----	3
Champaign -----	5	Miami -----	12
Clark -----	12	Monroe -----	42
Clermont -----	4	Montgomery -----	43
Clinton -----	9	Morgan -----	55
Columbiana -----	28	Morrow -----	3
Coshocton -----	27	Muskingum -----	62
Crawford -----	14	Noble -----	36
Cuyahoga -----	449	Ottawa -----	6
Darke -----	8	Paulding -----	4
Defiance -----	4	Perry -----	86
Delaware -----	10	Pickaway -----	21
Erie -----	9	Pike -----	18
Fairfield -----	55	Portage -----	4
Fayette -----	13	Preble -----	5
Franklin -----	48	Putnam -----	5
Fulton -----	8	Richland -----	39
Gallia -----	45	Ross -----	61
Geauga -----	0	Sandusky -----	8
Greene -----	3	Scioto -----	106
Guernsey -----	43	Seneca -----	4
Hamilton -----	40	Shelby -----	5
Hancock -----	2	Stark -----	88
Hardin -----	7	Summit -----	41
Harrison -----	32	Trumbull -----	48
Henry -----	5	Tuscarawas -----	85
Highland -----	14	Union -----	6
Hocking -----	120	Van Wert -----	12
Holmes -----	2	Vinton -----	46
Huron -----	17	Warren -----	1
Jackson -----	80	Washington -----	108
Jefferson -----	114	Wayne -----	20
Knox -----	29	Williams -----	4
Lake -----	35	Wood -----	2
Lawrence -----	68	Wyandot -----	4
		Total -----	3756

OTHER STATES

Arkansas -----	1	New Hampshire -----	1
California -----	1	New Jersey -----	46
Connecticut -----	24	New York -----	117
Georgia -----	1	Oklahoma -----	1
Idaho -----	1	Oregon -----	2
Illinois -----	7	Pennsylvania -----	122
Indiana -----	7	South Carolina -----	1
Kansas -----	1	Texas -----	1
Kentucky -----	4	Utah -----	1
Maryland -----	4	Vermont -----	2
Massachusetts -----	14	Virginia -----	4
Michigan -----	12	West Virginia -----	151
Missouri -----	2	Washington, D. C. -----	2
Nebraska -----	4	Wisconsin -----	3
		Total -----	537

FOREIGN COUNTRIES

France -----	1
Total Resident Students -----	4294

SUMMARY OF ENROLLMENT—JUNE 14, 1937 TO MARCH 1, 1938

CLASSIFICATION	Summer Sessions 1937 (Duplicates excluded)			First Semester 1937-1938			Second Semester 1937-1938			Total All Sessions (Duplicates excluded)		
	M	W	T	M	W	T	M	W	T	M	W	T
RESIDENT STUDENTS												
Graduates-----	109	84	193	41	50	91	42	41	83	143	123	266
Seniors-----	144	326	470	237	173	410	273	189	462	347	454	801
Juniors-----	92	277	369	312	203	515	334	191	525	385	445	830
Sophomores-----	38	56	94	425	350	775	396	330	726	452	375	827
Freshmen-----	23	27	50	692	409	1101	602	380	982	746	431	1177
Specials-----												
Full-Time-----	68	130	198	2	8	10	8	2	10	68	131	199
Part-Time-----	7	30	37	28	83	111	18	69	87	43	133	176
Auditors-----	1	2	3	3	8	11	1	10	11	3	15	18
Totals-----	482	932	1414	1740	1284	3024	1674	1212	2886	2187	2107	4294
NON-RESIDENT STUDENTS												
Extension Classes-----												
Correspondence Study from March 1, 1937 to March 1, 1938-----						565						697

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Alpha Delta Pi Prize	32	College of Commerce	73
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*"That there shall be a University instituted and established in the town of Athens, * * * for the instruction of youth in all the various branches of the liberal arts and sciences, for the promotion of good education, virtues, religion, and morality, and for conferring all the degrees and literary honors granted in similar institutions."*

Section 1, Territorial Act, January 9, 1802.

"Whereas, institutions for the liberal education of youth are essential to the progress of arts and sciences, important to morality, virtue, and religion, friendly to peace, order, and prosperity of society, and honorable to the government that encourages and patronizes them," etc.

Preamble, Act of Ohio Legislature establishing the Ohio University, at Athens, February 18, 1804.